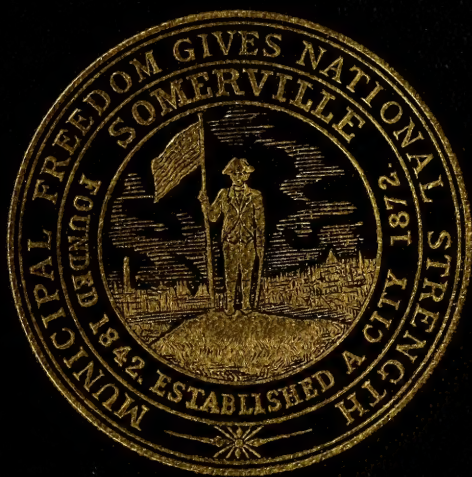




CITY OF SOMERVILLE
MASSACHUSETTS
ANNUAL REPORTS
1913

With Mayor's Inaugural Address
Delivered Jan. 5, 1914



SOMERVILLE JOURNAL PRINT
1914

INAUGURAL ADDRESS

DELIVERED BY

Mayor Zebedee E. Cliff

MONDAY, JANUARY 5, 1914

Gentlemen of the Board of Aldermen:—

Again in accordance with a time-honored custom we gather for the purpose of taking our several oaths of office and to then assume, as servants of the people, all the great cares and solemn responsibilities of conducting the affairs of our beloved city.

We are privileged to be the first city government to be inaugurated in this beautiful auditorium. A large common meeting place of this kind has long been needed, and its value to high school life and for general municipal purposes will be more and more appreciated as time goes on.

The duty of governing the municipality we now assume, and we must be faithful and true to our citizens who honored us by their suffrage.

Never before in the history of our city have the business men, plain, honest and practical people, the bed rock of the municipality, taken so much interest in public questions vital to their interests, comfort and prosperity.

The earnest, progressive citizen of today is not content in municipal affairs to blindly follow partisan leadership, but he is thinking for himself. Let us, then, as far as possible, ignore party affiliations, as we are, and should always be, a city government of and for all the people.

Your hearty co-operation with the mayor is necessary to a successful performance of our duties, and be assured that the mayor will co-operate with you in anything and in everything that will tend to the advancement of the people's welfare and happiness.

The expenditure and safeguarding of the citizens' money is a sacred trust; economy must prevail, and this without in any way crippling any of our departments.

unimproved real estate suitable for building purposes. By compelling such land to pay its rightful proportion, we not only equalize taxation, but we induce the building of more taxable property.

It is my intention to take up with the boards of trade the matter of bringing new industries into our city, as well as many other matters which will further our commercial success. These boards are wisely conducted and earnest in their work, and I shall be only too glad to co-operate with them in their efforts for the advancement and prosperity of our city.

City Charter.

There will undoubtedly be introduced in the legislature the present year, as in every year, one or more proposed amendments to the charter. These should receive your careful attention. Any such amendments as will help to better the administration of city affairs should receive our hearty support, but amendments introduced without good reason, and simply as an experiment in municipal government, should be strenuously opposed. Let us sink all political differences and personal prejudice in our consideration of such measures, and strive to obtain for our city the best possible form of government.

It seems to me that we have too frequent elections, and that the annual change in administrations does not tend to a settled policy in municipal affairs. I would recommend that the charter be so amended as to provide for biennial elections.

Planning Board.

Somerville, in common with other cities of the state, has added to her government a new body known as the planning board. This board, which is appointed in compliance with a legislative act of last year, is required to make careful studies of the resources, possibilities and needs of the city, particularly with respect to conditions which may be injurious to the public health or otherwise injurious in and about rented dwellings, and to make plans for the development of the municipality, with special reference to the proper housing of its people. The board is required to make an annual report to the city council, giving information regarding the condition of the city, and any plans or proposals for development, and estimates of the cost thereof. It is the apparent intent of the law that the board shall act, to a

certain extent, in harmony with the homestead commission of the commonwealth, which was created in 1911.

This board is permitted a wide latitude in its studies, and it should proceed with the greatest deliberation in reaching its conclusions.

Workmen's Compensation Acts.

At the last city election the voters accepted the act to provide for compensating laborers, workmen and mechanics for injuries sustained in public employment. This means that in the future the liability of the city for injuries in public employment will be the same as provided in the statutes relating to employees in ordinary business, known as the Workmen's Compensation Acts. In private business the employer generally insures, but in municipal business the expense of insurance would be a considerable item. We should carefully estimate, to the best of our ability, basing our estimate upon the municipal experience of the past, the probable cost to the city upon an insuring or non-insuring basis. We have for years eliminated the insurance cost in the maintenance of our public buildings, and the wisdom of the practice has been demonstrated, but fire risks to buildings, separated by wide areas, and accidental risks to our employees hardly furnish a basis of comparison as to the economy in insurance. This matter of provision for liability is one that should be given most careful consideration.

Fire Districts.

I desire to bring to your attention the need of fire districts, which I have advocated for years. I believe a beginning should be made, at an early date, in establishing such districts where the danger from fire seems greatest.

Streets.

Never more than at the present time have good roads been demanded. With the advent of heavy auto trucks and increased traffic everywhere, we must keep up with our neighbors in meeting this demand. Methods of construction have reached an advanced stage. Highland avenue and the recently-constructed Tufts street are commendable examples of good road work. No matter how good the original construction, constant supervision is necessary. Immediate repairs of worn surfaces will go far in keeping our roads in proper condition.

The cry for clean streets is universal. We all hear it, but not enough heed it. With a little more care we can make our city a model in this respect.

Grade Crossings.

The construction work of the abolition of grade crossings was placed by the decree of the court in charge of the Boston & Maine Railroad. At Somerville avenue, Medford street, Webster avenue and Dane street, during the last five years, the work of construction has been substantially completed. By statute law the duty is placed upon the city of taking charge of claims and actions for damages to estates caused by the change of grade of public ways. The city solicitor informs me that there were about 175 such claims. Up to the present time more than 125 claims have been adjusted by agreement with owners of estates, and only three actions in court have been brought to trial.

Street Railways.

The public service commission of the commonwealth, acting under chapter 402 of the Acts of 1907, on December 23 granted authority to the Boston Elevated Railway Company to act as a common carrier of baggage and freight in this city. Under this law the company is subject to such regulations and restrictions as may from time to time be made by the local authorities, subject to the approval of the commissioners, and in the grant of the commission it is expressly provided that the exercise of the authority shall not in any way interfere with the conduct of the passenger service. The people of Somerville are among the largest patrons of this corporation and are entitled to the best service that can be given. If it appears that the carrying of baggage and freight interferes with the proper carrying on of passenger transportation, the city government should take immediate action to impose further restrictions.

High School.

For several years the high school has been administered under trying conditions on account of the lack of sufficient seating accommodations. These conditions have been overcome by the recent construction of additions to the buildings and a re-

arrangement of the various rooms. The entire school is now enabled to return to a single session and to normal conditions.

The improved conditions and the opportunity which is thus given for the school to put into effect its plans for instruction and study seem to be greatly appreciated by all who are interested in the educational affairs of the city. This auditorium furnishes an opportunity for the gathering of the entire school and faculty at one time. These gatherings are sure to develop a better school spirit, and will in other directions be beneficial to the school activities.

I believe that a system of water service and hydrants should be constructed in connection with the buildings on Central Hill park. These buildings are not protected by fire insurance, and the comparatively small amount of money necessary for this equipment would safeguard property valued at more than \$500,000.

Public Library.

The new library building on this hill has been recently finished and dedicated. This was completed within the appropriation, and the trustees' estimates for this year's maintenance in the new structure are the same as for last year in the old. Economy will be possible because of better grouping of the parts of the service. This building is one of the best public buildings in the city, both from an architectural and a practical point of view. In its construction and equipment, careful attention has been given to all matters of detail, and I congratulate our citizens on possessing today one of the best library buildings in the commonwealth.

City Hall Annex.

Some disposition should be made at once of this building, as it not only detracts from the architectural beauty of the new library, but, in its present location, spoils the artistic effect of the whole park. I am somewhat surprised that provision has not already been made to carry out the original intention, which I have understood was definitely agreed upon, to remove this building on or before the completion of the new one. The interior of the old library building can be remodeled at small expense to furnish accommodations for departments now quartered in the annex, but there should certainly be provided quarters for the Grand Army no less comfortable than they now

have. If your board decides that the building should be removed to another location, the present quarters can be maintained; if you decide that the building should be torn down, suitable provision should be made in the old library building. Let us not go backward in honoring our veterans. Governor Guild, in his oration at the unveiling of the noble monument which stands on this beautiful hill, said:—

“From the days when on Prospect Hill the first flag of the united colonies, the stars and crosses, was hoisted by Israel Putnam at the siege of Boston, Somerville has been nobly worthy of Middlesex and Massachusetts. In the great struggle that decided that slavery was to end, the long roll of service shows that this city was represented not in the Fifth nor in the Thirty-ninth alone, but that it shared, through one representative or another, in well-nigh every achievement by Massachusetts for the Union, afloat or ashore.”

Somerville Hospital.

I am very glad to renew the annual recommendation that the usual sum of \$5,000 be appropriated for the work of this admirable institution. My only regret is that the city is not financially able to do much more, as I consider this one of the most needed and valuable institutions in our city.

No-license.

The attitude of our city in the matter of the sale of intoxicating liquor is one in which we take great pride. The vote at the last city election was particularly gratifying, the majority for no-license being the largest in our history.

I desire to acknowledge the courteous response of the various heads of departments to my requests for information. I have refrained at this time from making any statement of the work of departments, as I wish to acquaint myself more thoroughly with the details of their management. For the same reason, I have refrained from commendation or criticism. I enter the office of mayor under obligation to no man to do other than my duty as mayor. As I stated many times during the late campaign, both in public and in private, I intend to get down to bed rock and know just what is being done in all departments. It is my purpose, if I find that any department is not properly conducted, to correct the wrong, and if proper

business methods are not in use, to endeavor to install them.

I believe that every honest man in public life welcomes fair, decent criticism, but the spirit of fault-finding with city governments of today, generally without reason, has a bad influence in any community. A "booster" is better than a "knocker." If the members of the city government feel that they have the confidence and support of the people, they will do better work.

To you, members of the board of aldermen, I have just a word to say in closing. I have served in the board of aldermen and know the value to the city of hearty co-operation between the legislative and executive branches. I pledge you mine, and earnestly ask for yours. Do not let us for one moment forget that we are the servants of the people. We are the creatures of the moment, selected by our citizens to honorably and manfully conduct the city's affairs for the current year. Let us so live our official lives that at the end of our term of office it may be said that we have faithfully and conscientiously exerted our best efforts for the welfare, comfort and happiness of all the people. Our duty is a sacred one.

Financial Statement.

Funded Debt.—The funded debt of the city January 1, 1913, was as follows:—

City Loan	\$1,216,000 00
Sewer Loan	331,000 00
Water Loan	38,000 00
Metropolitan Park Assessment Loan	17,000 00
Lowell Street Bridge Loan	37,000 00
Municipal Loan	35,000 00
	\$1,674,000,00

The debt was increased during the year by appropriations made by the board of aldermen as follows:—

High School Addition, Furnishing and Equipment	\$14,000 00
S. Newton Cutler School, Grading Land	1,300 00
Central Heating Plant	30,000 00
Bingham School, Construction of Hall	2,000 00
Bell School, Additional Window Space	1,200 00
Highways Construction	20,000 00
Amount carried forward	\$68,500 00

Amount brought forward	\$68,500 00
Highway Department, Steam Roller	4,500 00
Highways, Shade Trees	500 00
Sidewalks Construction	20,000 00
Sewers Construction	30,000 00
New Cells, Police Station	5,000 00
Electrical Department, Underground Construction	3,000 00
Playgrounds Extension	2,500 00
Lincoln Park, Shower Baths	1,000 00
Municipal Loan	87,000 00
	\$222,000 00

The debt was reduced during the year by maturities as follows:—

City Loan	\$160,000 00
Sewer Loan	19,000 00
Water Loan	6,000 00
Metropolitan Park Assessment Loan	1,000 00
Lowell Street Bridge Loan	1,000 00
Municipal Loan	35,000 00
	\$222,000 00

Leaving the funded debt of the city January 1, 1914, \$1,674,000, in bonds classified as follows:—

City Loan, at $3\frac{1}{2}$ per cent.	\$208,000 00
City Loan, at 4 per cent.	848,000 00
City Loan, at $4\frac{1}{4}$ per cent.	105,000 00
Sewer Loan, at $3\frac{1}{2}$ per cent.	80,000 00
Sewer Loan, at 4 per cent.	232,000 00
Sewer Loan, at $4\frac{1}{4}$ per cent.	30,000 00
Water Loan, at 4 per cent.	32,000 00
Metropolitan Park Assessment Loan, at $3\frac{1}{2}$ per cent.	16,000 00
Lowell Street Bridge Loan, at $3\frac{1}{2}$ per cent.	36,000 00
Municipal Loan, at $4\frac{1}{2}$ per cent.	87,000 00
	\$1,674,000 00

Taxes.—The assessors' warrant for the tax levy assessed upon the polls and estates of the inhabitants, as of April 1, 1913, was duly submitted to the collector.

The total amount of taxable property, not including non-resident bank shares, was \$71,906,464.00, and the rate established was \$19.80 on each \$1,000 valuation, as follows:—

Real estate, valuation	\$64,077,600 00
Personal estate, valuation	7,768,300 00
Resident bank shares	60,564 00

Total valuation	\$71,906,464 00
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At the rate of \$19.80 on each \$1,000 valuation	\$1,423,747 99
Polls, 23,262 at \$2	46,524 00
Street Sprinkling	34,854 95
Extermination Gypsy and Brown-tail moths	580 04

\$1,505,706 98

Non-resident bank shares, \$86,436 at \$19.80	1,711 43
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Total amount of tax levy	\$1,507,418 41
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Appropriations were made as follows:—

General Government	\$76,298 00
Protection of Life and Property	226,200 00
Health and Sanitation	141,500 00
Highways	123,000 00
Charities	36,300 00
Soldiers' Benefits	39,200 00
Education	407,000 00
Libraries	39,100 00
Recreation	17,025 00
Unclassified	3,277 00
Municipal Indebtedness	300,151 80
Water Works	185,800 00

Amounting in the aggregate to	\$1,594,851 80
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Less estimated revenue	\$446,760 34
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Less unexpended balance, 1912	13,419 70
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460,180 04

Amount to be raised by taxation	\$1,134,671 76
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Amount carried forward	\$1,134,671 76
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Amount brought forward \$1,134,671 76

STATE AND COUNTY TAXES, ETC. :—

State Tax	\$126,000 00
County Tax	63,565 14
Grade Crossing Tax	12,091 27
State Highway Tax	58 00
Abatement of Smoke, Boston and vicinity	247 44
Metropolitan Sewer Assessment	69,725 37
Metropolitan Park Assessment	36,157 60
Charles River Basin Assessment	6,349 56
Alewife Brook Assessment	1,222 50
Wellington Bridge Assessment	631 31
Overlay and Abatement	19,552 04
Street Sprinkling	34,854 95
Extermination of Gypsy and Brown-tail Moths	580 04
	\$1,505,706 98
Collected for state on non-resident bank shares	1,711 43
	\$1,507,418 41

The following tables, giving a condensed history of the city's finances, are herewith presented for reference:—

YEAR.	Amount of Funded Debt.	Increase of Funded Debt.	Reduction of Funded Debt.	Tax Rate per \$1,000 Valuation on Account of Reduction of Funded Debt.
Town	\$593,349			
Dec. 31, 1872	643,354	\$50,005		
" 1873	809,354	166,000		
" 1874	1,419,854	610,500		
" 1875	1,571,854	152,000		
" 1876	1,606,854	45,000	*\$55,130 62	\$2 07
" 1877	1,606,854	10,000	*58,828 58	2 30
" 1878	1,596,854		61,004 64	2 91
" 1879	1,585,000		64,915 76	3 42
" 1880	1,585,000		55,739 35	2 72
" 1881	1,585,000		58,498 64	2 59
" 1882	1,585,000		61,390 59	2 65
" 1883	1,585,000		64,479 01	2 70
" 1884	1,585,000		67,719 33	2 78
" 1885	†1,525,000		71,305 66	2 87
" 1886	1,525,000		66,894 23	2 57
" 1887	1,525,000		70,252 88	2 56
" 1888	†860,500	25,000	37,000 00	1 28
" 1889	952,500	130,000	38,000 00	1 27
" 1890	1,057,500	150,000	45,000 00	1 38
" 1891	1,045,500	45,000	57,000 00	1 55
" 1892	1,194,500	253,000	104,000 00	2 73
" 1893	1,279,500	222,000	137,000 00	3 27
" 1894	1,344,500	172,000	107,000 00	2 42
" 1895	1,506,500	247,000	85,000 00	1 83
" 1896	1,531,000	177,000	152,500 00	3 11
" 1897	1,548,000	167,000	150,000 00	2 39
" 1898	1,552,000	176,000	172,000 00	3 99
" 1899	1,492,500	110,000	169,500 00	3 30
" 1900	1,478,000	152,000	166,500 00	3 17
" 1901	1,461,000	146,000	163,000 00	3 02
" 1902	1,447,000	175,000	159,000 00	2 86
" 1903	1,505,500	197,500	169,000 00	2 96
" 1904	1,493,500	132,500	139,500 00	2 40
" 1905	1,510,000	148,000	136,500 00	2 30
" 1906	1,464,500	100,000	145,500 00	2 41
" 1907	1,508,000	198,000	154,500 00	2 51
" 1908	1,466,500	110,000	151,500 00	2 06
" 1909	1,503,000	190,000	153,500 00	2 42
" 1910	1,500,000	160,000	163,000 00	2 26
" 1911	1,519,000	188,000	169,000 00	2 41
" 1912	1,674,000	332,000	177,000 00	2 54
" 1913	1,674,000	222,000	222,000 00	2 92

*\$10,000 applied to payment of bonds; balance to sinking funds.

†Sinking fund applied.

YEAR.	VALUATION.	TAX LEVY.	RATE.
1872	\$22,755,325	\$274,374 45	\$13 00
1873	29,643,100	389,214 48	12 80
1874	30,837,700	473,235 50	15 00
1875	31,317,000	518,161 40	16 20
1876	26,573,400	504,475 24	18 60
1877	25,479,400	471,789 14	18 10
1878	20,976,900	409,497 10	19 00
1879	18,950,100	352,553 80	18 00
1880	20,458,100	402,927 71	19 10
1881	22,569,100	452,945 45	19 50
1882	23,162,200	425,721 16	17 80
1883	23,812,900	411,645 43	16 70
1884	24,331,100	418,750 26	16 60
1885	24,878,400	428,605 44	16 60
1886	26,003,200	416,987 28	15 40
1887	27,471,800	424,309 14	14 80
1888	28,765,400	421,458 60	14 00
1889	30,004,600	440,324 40	14 00
1890	32,557,500	447,704 00	14 00
1891	36,843,400	539,137 10	14 00
1892	38,093,100	596,357 50	15 00
1893	41,873,600	675,886 80	15 50
1894	44,142,900	721,165 54	15 70
1895	46,506,300	745,609 02	15 40
1896	49,070,800	786,412 32	15 40
1897	50,231,000	913,574 42	17 30
1898	50,739,700	954,187 11	17 90
1899	51,262,400	882,580 96	16 30
1900	52,578,200	889,916 08	16 00
1901	53,924,200	907,439 82	15 90
1902	55,558,300	964,535 80	16 40
1903	57,062,000	1,038,849 84	17 20
1904	58,137,900	1,059,292 56	17 20
1905	59,233,000	1,144,000 14	18 30
1906	60,371,500	1,114,023 62	17 40
1907	61,627,200	1,144,434 92	17 40
1908	63,158,400	1,237,694 72	18 40
1909	63,658,953 20	1,260,144 32	18 60
1910	66,376,338 70	1,306,888 71	18 50
1911	67,284,066 00	1,366,240 92	19 10
1912	69,632,540 00	1,390,824 93	18 80
1913	71,906,464 00	1,505,706 98	19 80

REPORT OF THE CITY TREASURER AND COLLECTOR OF TAXES.

Treasurer's Office, February 26, 1914.

To the Honorable, the Mayor, and the Board of Aldermen of
the City of Somerville:—

Gentlemen: The undersigned presents herewith the forty-second annual report of the financial condition of the city, and a statement showing, in detail, the receipts and disbursements for the year ending December 31, 1913.

Public Property.

The property acquired during the year was as follows:—

New Cells, Police Station	\$953 19
Fire Department, Additional Apparatus	5,800 00
Fire Department, Chief's automobile, 1912	1,875 00
Sewers Construction	\$26,666 08
Less deductions	2,654 08
	24,012 00
Highways, Steam Roller	4,400 00
City Home Addition	120 10
High School Addition	113,617 98
High School, Furnishing and Equipment	12,130 75
S. Newton Cutler School	\$4,474 59
S. Newton Cutler School, Grading Land, ...	1,063 90
	5,538 49
School Buildings, Fire Exits (Forster School)	2,155 04
Bell School, Additional Window Space	1,188 53
Bingham School, Constructing Hall	1,950 46
Central Heating Plant	20,416 00
Public Library Construction	90,570 22
Lincoln Park Shower Baths	994 50
Water Works Extension	\$20,224 44
Less Water Service Assessments	5,079 51
	15,144 93
Property acquired in 1913	\$300,867 19
Value, December 31, 1912	5,677,038 63
Making the total public property December 31, 1913	<u>\$5,977,905 82</u>

Funded Debt.

The funded debt December 31, 1912, as per Table B of the last annual report, was \$1,674,000.00.

The debt was increased during the year by appropriations as follows:—

Loan dated April 1, 1913:—

Highways Construction	\$20,000 00
Sidewalks Construction	20,000 00
Highways, Shade Trees	500 00
Highway Department, Steam Roller	4,500 00
Electrical Department, Underground Construction	3,000 00
Playgrounds Extension	2,500 00
Lincoln Park, Shower Baths	1,000 00

Amount carried forward	\$51,500 00
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Amount brought forward	\$51,500 00
High School Addition, Furnishing and Equipment	14,000 00
New Cells, Police Station	5,000 00
Central Heating Plant	30,000 00
S. Newton Cutler School, Grading Land	1,300 00
Bingham School, Constructing Hall	2,000 00
Bell School, Additional Window Space, ...	1,200 00
Sewers Construction	30,000 00

\$135,000 00

Municipal Loan, dated July 1, 1913:—

Fire Department, Additional Apparatus	\$20,000 00
Highways Construction	7,000 00
Fire Department	10,000 00
Police Department	4,000 00
Contagious Hospital	4,000 00
Refuse Disposal	7,000 00
Central Library	4,000 00
School Contingent	4,000 00
School Teachers' Salaries	14,000 00
Contingent Fund	13,000 00

87,000 00

Total amount of appropriations on Funded Debt account

\$222,000 00

To provide for the above-mentioned appropriations, coupon bonds to the amount of \$222,000 were issued, viz.:—

Dated April 1, 1913, 4¼ per cent.

City Loan Bonds:—

Nos. 4461 to 4471, payable 1914	\$11,000 00
Nos. 4472 to 4482, payable 1915	11,000 00
Nos. 4483 to 4493, payable 1916	11,000 00
Nos. 4494 to 4504, payable 1917	11,000 00
Nos. 4505 to 4515, payable 1918	11,000 00
Nos. 4516 to 4525, payable 1919	10,000 00
Nos. 4526 to 4535, payable 1920	10,000 00
Nos. 4536 to 4545, payable 1921	10,000 00
Nos. 4546 to 4555, payable 1922	10,000 00
Nos. 4556 to 4565, payable 1923	10,000 00

Sewer Loan Bonds:—

Nos. 564 to 593, payable 1914 to 1943	30,000 00
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\$135,000 00

Dated July 1, 1913, 4½ per cent.

Municipal Loan Bonds:—

Nos. 4566 to 4575, payable 1914	\$10,000 00
Nos. 4576 to 4585, payable 1915	10,000 00
Nos. 4586 to 4595, payable 1916	10,000 00
Nos. 4596 to 4605, payable 1917	10,000 00
Nos. 4606 to 4613, payable 1918	8,000 00
Nos. 4614 to 4621, payable 1919	8,000 00
Nos. 4622 to 4629, payable 1920	8,000 00
Nos. 4630 to 4637, payable 1921	8,000 00
Nos. 4638 to 4645, payable 1922	8,000 00
Nos. 4646 to 4652, payable 1923	7,000 00

87,000 00

\$222,000 00

The following bonds became due during the year:—

City Loan Bonds:—

Nos. 1722 to 1727, interest 4 per cent.	\$6,000 00
Nos. 2019 to 2031, interest 4 per cent.	13,000 00
No. Reg. 197, interest 4 per cent.	1,000 00
Nos. 2196 to 2201, interest 4 per cent.	6,000 00
Nos. 2345 to 2348, interest 4 per cent.	4,000 00
Nos. 2486 to 2490, interest 4 per cent.	5,000 00
Nos. 2604 to 2607, interest 4 per cent.	4,000 00
Nos. 2746 to 2748, interest 3½ per cent.	3,000 00
No. Reg. 78, interest 3½ per cent.	1,000 00
Nos. 2858 to 2861, interest 3½ per cent.	4,000 00
Nos. 2988 to 2990, interest 3½ per cent.	3,000 00
Nos. 3101 to 3109, interest 4 per cent.	9,000 00
Nos. 3262 to 3266, 3268 to 3269, interest 4 per cent.	7,000 00
Nos. 3267, 3270, interest 4 per cent.	1,000 00
Nos. 3168, 3169, interest 4 per cent.	2,000 00
No. Reg. 118, interest 3½ per cent.	9,000 00
No. Reg. 9, interest 4 per cent.	7,000 00
No. Reg. 48, interest 4 per cent.	1,000 00
Nos. 3564 to 3573, interest 4 per cent.	10,000 00
Nos. 3674 to 3680, interest 4 per cent.	7,000 00
Nos. 3759 to 3769, interest 3½ per cent.	11,000 00
Nos. 3866 to 3875, interest 4 per cent.	10,000 00
Nos. 3990 to 4003, interest 4 per cent.	14,000 00
Nos. 4144 to 4154, interest 4 per cent.	11,000 00
Nos. 4262 to 4272, interest 4 per cent.	11,000 00

Sewer Loan Bonds:—

No. 72, interest 4 per cent.	1,000 00
Nos. 135 to 137, interest 4 per cent.	3,000 00
No. 189, interest 4 per cent.	1,000 00
No. 213, interest 4 per cent.	1,000 00
No. 235, interest 3½ per cent.	1,000 00
No. 264, interest 3½ per cent.	1,000 00
No. 288, interest 4 per cent.	1,000 00
No. 312, interest 4 per cent.	1,000 00
No. 336, interest 3½ per cent.	1,000 00
No. 365, interest 4 per cent.	1,000 00
No. Reg. 23, interest 4 per cent.	2,000 00
No. 443, interest 4 per cent.	1,000 00
No. 472, interest 3½ per cent.	1,000 00
No. 501, interest 4 per cent.	1,000 00
No. 530, interest 4 per cent.	1,000 00
No. 549, interest 4 per cent.	1,000 00

Water Loan Bonds:—

No. 297, interest 4 per cent.	1,000 00
No. Reg. 106, interest 4 per cent.	3,000 00
Nos. 432 to 433, interest 4 per cent.	2,000 00

Metropolitan Park Assessment Loan Bonds:—

No. 11, interest 3½ per cent.	1,000 00
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Lowell Street Bridge Loan Bonds:—

No. 4, interest 3½ per cent.	1,000 00
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Municipal Loan Bonds:—

Nos. 4426 to 4460, interest 4 per cent.	35,000 00
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Total amount of bonds maturing in 1913	\$222,000 00
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Leaving the net funded debt December 31, 1913,
\$1,674,000, classified as follows:—

City Loan Bonds at $3\frac{1}{2}$ per cent.	\$208,000 00
City Loan Bonds at 4 per cent.	848,000 00
City Loan Bonds at $4\frac{1}{4}$ per cent.	105,000 00
Sewer Loan Bonds at $3\frac{1}{2}$ per cent.	80,000 00
Sewer Loan Bonds at 4 per cent.	232,000 00
Sewer Loan Bonds at $4\frac{1}{4}$ per cent.	30,000 00
Water Loan Bonds at 4 per cent.	32,000 00
Metropolitan Park Assessment Loan Bonds at $3\frac{1}{2}$ per cent.	16,000 00
Lowell Street Bridge Loan Bonds at $3\frac{1}{2}$ per cent.	36,000 00
Municipal Loan Bonds at $4\frac{1}{2}$ per cent.	87,000 00
	\$1,674,000 00

Funded debt within the limit fixed by law:—

City Loan	\$1,161,000 00
Municipal Loan	87,000 00
Sewer Loan	306,000 00
Lowell Street Bridge Loan	36,000 00
	\$1,590,000 00

Funded debt beyond the limit fixed by law:—

Sewer Loan (Chapter 357, Acts 1895)	\$36,000 00
Metropolitan Park Assessment Loan (Chapter 325, Acts 1902)	16,000 00
	\$52,000 00
Water Loan	32,000 00
	84,000 00
	\$1,674,000 00

Borrowing Capacity.

Valuation, 1911	\$67,284,066 00
Supplementary	483,000 00
	\$67,767,066 00
Valuation, 1912	\$69,632,540 00
Supplementary	284,000 00
	69,916,540 00
Valuation, 1913	\$71,906,464 00
Supplementary	257,400 00
	72,163,864 00
	\$209,847,470 00
Abatements, 1911	\$640,800 00
1912	467,000 00
1913	336,700 00
	1,444,500 00
	\$208,402,970 00
Average, three years 1-3	69,467,656 66
	$2\frac{1}{2}$ per cent.
Amount within the limit	1,736,691 41
Borrowing capacity, January 1, 1914	\$146,691 41
Amount carried forward	\$146,691 41

Amount brought forward		\$146,691 41
Maturities, January 1, 1914	\$12,000 00	
April 1, 1914	81,000 00	
July 1, 1914	\$103,000 00	
Less outside limit	5,000 00	
		98,000 00
October 1, 1914	\$7,000 00	
Less outside limit	5,000 00	
		2,000 00
Maturities in 1914 within the limit		193,000 00
		\$339,691 41
Maturities within the limit	\$193,000 00	
Maturities outside the limit	10,000 00	
Total maturities	\$203,000 00	

Resources.**Taxes, Loans, and Revenue.**

The assessors' warrant for the tax levy, assessed upon the polls and estates of the inhabitants, was duly received.

The total amount of taxable property April 1, 1913, not including non-resident bank shares, was \$71,906,464.00, and the rate established was \$19.80 on each \$1,000 valuation, as follows:—

Real estate, valuation	\$64,077,600 00
Personal estate, valuation	7,768,300 00
Resident Bank Shares	60,564 00
Total valuation	\$71,906,464 00
At a rate of \$19.80 on each \$1,000 valuation	\$1,423,747 99
Polls, 23,262 at \$2	46,524 00
Street sprinkling	34,854 95
Gypsy and brown-tail moth extermination	580 04
Non-resident bank shares to be paid to state	\$1,505,706 98
	1,711 43
Total amount of tax levy	\$1,507,418 41
Borrowed on Funded Debt account, to provide for the cost of public improvements	135,000 00
Municipal Loan (\$27,000 for public improvements)	87,000 00
Revenue, from Corporation Taxes, City Departments, etc.	448,131 62
	\$2,177,550 03

Credit Balances.**Funded Debt Appropriations:—**

New Cells, Police Station	\$4,046 81
Fire Department, Additional Apparatus	20,200 00
Electrical Department, Underground Construction	2,007 82
Shade Trees	3 97
Amount carried forward	\$26,258 60

Amount brought forward	\$26,258 60
Sewers Construction	4,391 68
Highways Construction	313 38
Grade Crossing Expenses	5,818 09
Bennett School Addition	166 71
S. Newton Cutler School	1,269 79
High School Addition	10,630 35
High School, Furnishing and Equipment	2,909 25
Central Heating Plant	9,584 00
Public Library Construction	4,408 07
Playgrounds Extension	1,798 35
Lincoln Park Shower Baths	5 50
Building Public Buildings	1,395 26

\$68,949 03

Public Trust Funds, Income:—

Public Library:—

Isaac Pitman Fund, Art	\$6 88
Isaac Pitman Fund, Poetry	1 14
Frances A. Wilder Children's Department Fund	17 35
Martha R. Hunt Fund, Books	3 53
Martha R. Hunt Fund, Art	52 50
S. Newton Cutler Library Fund	49

Public School:—

S. Newton Cutler Fund	205 00
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286 89

Private Trust Funds:—

Overplus on Tax Sales	\$118 13
Sundry Persons	619 56

737 69

Reduction of Funded Debt (Balance premium on bonds),

1,836 90

\$71,810 51

Cash.

Balance on hand January 1, 1913	\$223,792 03
Total receipts for the year 1913	3,191,149 95
Service transfers	45,018 13

\$3,459,960 11

Total cash disbursements for the year 1913

3,326,216 65

Balance in the treasury December 31, 1913

\$133,743 46

Deposits in banks \$130,140 03

Cash on hand 3,603 43

\$133,743 46

Available Assets.

Cash in treasury	\$133,743 46
Funded Debt Balances	\$68,949 03
Reduction of Funded Debt, balance of premiums	1,836 90
Public Trust Fund Income	286 89
Private Trust Funds	737 69

71,810 51

\$61,932 95

Amount carried forward \$61,932 95

Amount brought forward		\$61,932 95
Taxes uncollected, 1912 and prior years	\$1,084 53	
Overlay and Abatement, 1912 and prior years	5,134 33	
Taxes uncollected, 1913	\$287,883 15	
Overlay and Abatement, 1913	17,546 81	
		270,336 34
Highway Betterment Assessments, uncollected		4,949 32
Sidewalk Assessments, uncollected		13,492 98
Sewer Assessments, uncollected		1,969 05
Metered Water Charges, uncollected		19,634 64
Commonwealth of Massachusetts, cash advances:—		
State Aid	\$15,033 50	
Military Aid	224 50	
Soldiers' Burials	635 00	
		15,893 00
Grade Crossings (cash advances for land damages, etc.)		48,613 61
		\$436,821 89

Liabilities.

Temporary Loans:—		
In anticipation of Taxes	\$350,000 00	
Grade Crossings	75,000 00	
		425,000 00
Excess and Deficiency	\$7,772 09	
Surplus Overlay and Abatement, 1912	4,049 80	
		\$11,821 89
		\$11,821 89

Balance Sheet.

DEBIT.		
Public Property		\$5,977,905 82
Excess of available assets		11,821 89
		\$5,989,727 71
CREDIT.		
Funded Debt	\$1,674,000 00	
Property and Debt Balance	4,303,905 82	
Excess and Deficiency account	7,772 09	
Overlay and Abatement, 1912 and prior years (in excess of outstanding taxes).	4,049 80	
		\$5,989,727 71

A detailed statement of the public property, funded debt, and of the receipts and disbursements of the several accounts will be found in the following appendix.

Respectfully submitted,
JOSEPH S. PIKE,
Treasurer and Collector of Taxes.

APPENDIX TO TREASURER AND COLLECTOR'S REPORT.

TABLE A.—PUBLIC PROPERTY DECEMBER 31, 1913.

Central Hill land (389,920 feet)		\$270 000 00
City Hall	\$37,795 74	
Furniture and fixtures	10,000 00	
Storage vault	2,342 91	
		50,138 65
Public Library building	42,000 00	
Central Heating Plant	20,416 00	
Public Library land and building, West Somerville	31,449 52	
Public Library	25,000 00	
New Building, partially completed	115,591 93	
		234,457 45
City Hall Annex		20,655 02
Albion A. Perry Schoolhouse, Washington street, land (46,080 feet) and building	36,000 00	
Furniture	1,080 00	
Books	530 00	
		37,610 00
Bingham Schoolhouse, land (35,586 feet) and building	69,355 50	
Furniture	2,600 00	
Books	2,300 00	
		74,255 50
Burns Schoolhouse, land (16,080 feet) and building	33,300 00	
Furniture	1,460 00	
Books	1,000 00	
		35,760 00
Charles G. Pope Schoolhouse, land (27,236 feet) and building	83,600 00	
Furniture	2,160 00	
Books	2,600 00	
		88,360 00
Cummings Schoolhouse, land (11,300 feet) and building	11,200 00	
Furniture	720 00	
Books	500 00	
		12,420 00
Davis Schoolhouse, land (30,155 feet) and building	22,000 00	
Furniture	720 00	
Books	400 00	
Vocational equipment	5,183 50	
		28,303 50
Edgerly Schoolhouse, land (24,000 feet) and building	43,800 00	
Furniture	2,230 00	
Books	2,800 00	
		48,830 00
High Schoolhouse	362,938 93	
Furniture	18,730 75	
Philosophical and manual training ap- paratus	11,260 13	
Amounts carried forward	\$392,929 81	\$900,790 12

Amounts brought forward	\$392,929 81	\$900,790 12
Books	15,300 00	
		408,229 81
Forster Schoolhouse and Annex, land (30,632 feet) and buildings	84,155 04	
Furniture	3,290 00	
Books	4,100 00	
		91,545 04
George L. Baxter Schoolhouse, land (11,000 feet) and building	31,800 00	
Furniture	1,155 64	
Books	450 00	
		33,405 64
George O. Proctor Schoolhouse, building (on Armory lot) (40,244 feet)	\$41,029 16	
Furniture	1,791 30	
Books	1,200 00	
		44,020 46
George W. Durell Schoolhouse, land (13,883 feet) and building	19,000 00	
Furniture	720 00	
Books	500 00	
		20,220 00
Highland Schoolhouse, land (23,260 feet) and building	58,000 00	
Furniture	2,560 00	
Books	2,800 00	
		63,360 00
Jacob T. Glines Schoolhouse, land (28,800 feet) and building	78,200 00	
Furniture	2,340 00	
Books	2,100 00	
		82,640 00
Lincoln Schoolhouse, land (17,662 feet) and building	17,500 00	
Furniture	720 00	
		18,220 00
Luther V. Bell Schoolhouse, land (22,262 feet) and building	47,685 16	
Furniture	2,400 00	
Books	2,400 00	
		52,485 16
Martin W. Carr Schoolhouse, land (21,530 feet) and building	51,410 00	
Furniture	2,800 00	
Books	2,800 00	
		57,010 00
Morse Schoolhouse, land (29,000 feet) and building	45,859 00	
Furniture	2,340 00	
Books	2,800 00	
		50,999 00
Amount carried forward		\$1,822,925 23

Amount brought forward		\$1,822,925 23
Martha Perry Lowe Schoolhouse, land (21,650 feet) and building	\$50,346 16	
Furniture	1,480 00	
Books	800 00	
		52,626 16
O. S. Knapp Schoolhouse, land (24,517 feet) and building	48,000 00	
Furniture	2,540 00	
Books	3,000 00	
		53,540 00
Prescott Schoolhouse, land (22,000 feet) and building	66,677 66	
Furniture	2,260 00	
Books	2,700 00	
		71,637 66
Prospect-hill Schoolhouse, land (23,733 feet) and building		15,000 00
Benjamin G. Brown Schoolhouse, land (26,733 feet) and building	62,861 17	
Furniture	1,290 16	
Books	700 00	
		64,851 33
Sanford Hanscom Schoolhouse, land (16,767 feet) and building	72,210 46	
Furniture	1,080 00	
Books	500 00	
		73,790 46
Clark W. Bennett Schoolhouse, land (21,964 feet) and building	59,589 03	
Furniture	2,180 00	
Books	1,000 00	
		62,769 03
William H. Hodgkins Schoolhouse, land (47,379 feet) and building	77,359 88	
Furniture	2,400 00	
Books	2,300 00	
		82,059 88
S. Newton Cutler Schoolhouse, land (53,729 feet) and building	86,296 40	
Furniture	1,490 26	
Books	1,500 00	
		89,286 66
Industrial School for Girls, land (8,850 feet), Building	4,300 00	
Equipment	5,986 60	
	408 42	
		10,695 02
City Stables, dwelling houses and 462,623 feet of land	95,350 12	
Health Department, shed	1,189 79	
Incinerator	2,704 01	
Equipments for highway repairs	26,090 00	
Watering carts and sheds	5,000 00	
Spraying machine	1,289 00	
Refuse disposal equipment	4,950 00	
		136,572 92
Water Works, land and buildings (93,500 feet)		32,000 00
Amount carried forward		\$2,567,754 35

Amount brought forward		\$2,567,754 35	
No. 1 Fire Station, land (8,937 feet) and building	33,200 00		
Engine No. 2 and apparatus	4,000 00		
Hose wagon No. 1 and apparatus	1,500 00		
Furniture	400 00		
			39,100 00
No. 2 Fire Station, land (5,500 feet) and building	10,400 00		
Furniture	400 00		
Hose wagon No. 2 and apparatus	1,500 00		
			12,300 00
No. 3 Fire Station, land (13,700 feet) and building	55,743 18		
Furniture	400 00		
Hose wagon No. 3 and apparatus	1,500 00		
Hook and ladder truck and apparatus	3,400 00		
Engine No. 3	5,375 00		
Combination hose and chemical	2,250 00		
			68,668 18
No. 4 Fire Station, land (9,100 feet) and building	15,500 00		
Furniture	400 00		
Engine No. 4 and apparatus	4,000 00		
Combination wagon and apparatus	2,500 00		
			22,400 00
No. 5 Fire Station, land (39,000 feet) and building	16,500 00		
Furniture	400 00		
Hose wagon No. 5 and apparatus	7,300 00		
			24,200 00
No. 6 Fire Station, land (8,113 feet) and building	17,600 00		
Furniture	600 00		
Apparatus	10,265 45		
Combination hose and chemical	2,250 00		
			30,715 45
Hook and Ladder Station No. 2, land (9,903 feet) and building	14,100 00		
Furniture	1,200 00		
Apparatus	12,458 37		
			27,758 37
Central Fire Station, land (11,738 feet) and building	36,700 00		
Furniture	500 00		
Engine No. 1 and apparatus	4,000 00		
Hose wagon and apparatus	2,000 00		
Two relief hose carriages	1,000 00		
One relief hook and ladder	400 00		
Chemical Engine A and equipment	2,498 53		
Chief's automobile	1,875 00		
			48,973 53
Land for Fire Station, Winter Hill (7,829 feet)			6,038 20
Fire Alarm and Police Signal apparatus			36,610 00
Police Station, land (15,225 feet) and building	54,953 19		
Furniture	3,000 00		
Vault	2,994 90		
Ambulance and patrol auto	3,715 00		
			64,663 09
Amount carried forward			\$2,949,181 17

Amount brought forward		\$2,949,181 17
City Home, Broadway, land (421,646 feet)		
and buildings	44,407 85	
Furniture	1,808 72	
		46,216 57
Contagious and Tuberculosis Hospital		
buildings	28,499 55	
Land (88,364 feet)	15,600 00	
		44,099 55
Bath House		3,730 24
Water Works		972,298 60
Sewers		1,306,901 00
Prospect street, land (7,918 feet) and building		3,800 00
Broadway Park (cost \$212,993.20) (700,000 square feet)	\$270,000 00	
Park Buildings	2,726 89	
		272,726 89
Nathan Tufts Park (about 4 54-100 acres, 217,572 feet)		68,000 00
Lincoln Park, Washington street (288,764 square feet)	\$63,200 00	
Out-door Gymnasium	800 00	
Park Building	3,753 19	
		67,753 19
Prospect-hill Park (94,503 feet)	\$67,511 75	
Historical Building and Observatory	9,119 55	
		76,631 30
Kent-street Playground (40,000 feet)		12,500 00
Powder-house Boulevard (200,618 square feet) and building		22,500 00
Joy street, land (2,700 feet)		900 00
Broadway, land (10,890 feet)		2,300 00
Webster avenue, land (10,000 feet)		2,500 00
Holland street, land (217,800 feet)		35,500 00
Gravel land in Waltham (about 30 acres)		10,234 17
Somerville Field		27,300 00
Clarendon-hill ledge		8,500 00
Oliver street, land (40,500 feet)		18,000 00
Beacon street, land (10,000 feet)		2,800 00
Passageway on Putnam street (1,135 feet)		400 00
Stand Pipe lot (17,176 feet)		5,100 00
Glen street, land (6,370 feet)		2,300 00
Somerville avenue, land (305 feet)		300 00
Broadway, junction Main street, land (1,260 feet)		900 00
Joy-street playground (20,000 feet)		9,750 00
Polling Booths		1,783 14
Total amount of public property		\$5,977,905 82
Items omitted:—		
Charlton lot, Murdock street (6,014 square feet)		\$500 00
Reserve strip, Hancock street and Spencer avenue (120 square feet)		50 00

TABLE B. OUTSTANDING BONDS, JANUARY 1, 1914.

ISSUE.	Rate per cent. of Interest.	Water.	Municipal Loan.	Met. Park Assessment (Outside limit), Chap. 325, Acts 1902.	Lowell Street Bridge.	Sewer.	Sewer (Outside of limit) Chap. 357, Acts 1895.	City.	Total.
July 1, 1888	4	\$5,000	.....	.....	.....	.....	.....	.....	\$5,000
Oct. 1, 1889	4	13,000	.....	.....	.....	.....	.....	.....	13,000
Oct. 1, 1890	4	14,000	.....	.....	.....	.....	.....	.....	14,000
July 1, 1894	4	.....	.....	.....	.....	\$1,000	.....	\$ 6,000	7,000
July 1, 1895	4	.....	.....	.....	.....	.....	\$36,000	26,000	62,000
July 1, 1896	4	.....	.....	.....	.....	.....	.....	21,000	21,000
July 1, 1897	4	.....	.....	.....	.....	9,000	.....	16,000	25,000
July 1, 1898	4	.....	.....	.....	.....	10,000	.....	25,000	35,000
July 1, 1899	4	.....	.....	.....	.....	.....	.....	18,000	18,000
July 2, 1900	3½	.....	.....	.....	.....	.....	.....	28,000	28,000
July 1, 1901	3½	.....	.....	.....	.....	18,000	.....	32,000	50,000
July 1, 1902	3½	.....	.....	\$16,000	.....	14,000	.....	26,000	56,000
July 1, 1903	4	.....	.....	.....	.....	15,000	.....	40,000	55,000
Oct. 1, 1903	4	.....	.....	.....	.....	.....	.....	20,000	20,000
July 1, 1904	4	.....	.....	.....	.....	16,000	.....	33,000	49,000
April 1, 1905	3½	.....	.....	.....	.....	22,000	.....	46,000	68,000
July 1, 1906	4	.....	.....	.....	.....	13,000	.....	26,000	39,000
April 1, 1907	4	.....	.....	.....	.....	48,000	.....	72,000	120,000
April 1, 1908	4	.....	.....	.....	.....	25,000	.....	45,000	70,000
April 1, 1909	3½	.....	.....	.....	\$36,000	26,000	.....	76,000	138,000
April 1, 1910	4	.....	.....	.....	.....	27,000	.....	100,000	127,000
April 1, 1911	4	.....	.....	.....	.....	18,000	.....	140,000	158,000
Jan. 1, 1912	4	.....	.....	.....	.....	14,000	.....	107,000	121,000
July 1, 1912	4	.....	.....	.....	.....	.....	.....	153,000	153,000
April 1, 1913	4¼	.....	.....	.....	.....	30,000	.....	105,000	135,000
July 1, 1913	4½	.....	\$87,000	.....	.....	.....	.....	.....	87,000
		\$32,000	\$87,000	\$16,000	\$36,000	\$306,000	\$36,000	\$1,161,000	\$1,674,000

BONDS DUE IN 1914.

ISSUE.	Rate per cent. of Interest.	City.	Sewer.	Sewer (Outside of limit) Chap. 357, Acts 1895.	Water.	Municipal Loan.	Metropolitan Park Assessment (Outside)Chap. 325, Acts 1902.	Lowell Street Bridge.	Total.
July 1, 1888	4	.....	.....	.....	\$1,000	.....	.....	.....	\$1,000
Oct. 1, 1889	4	.....	.....	.....	3,000	.....	.....	.....	3,000
Oct. 1, 1890	4	.....	.....	.....	2,000	.....	.....	.....	2,000
July 1, 1894	4	\$6,000	\$1,000	.....	.....	.....	.....	.....	7,000
July 1, 1895	4	13,000	.....	\$3,000	.....	.....	.....	.....	16,000
July 1, 1896	4	7,000	.....	.....	.....	.....	.....	.....	7,000
July 1, 1897	4	4,000	1,000	.....	.....	.....	.....	.....	5,000
July 1, 1898	4	5,000	1,000	.....	.....	.....	.....	.....	6,000
July 1, 1899	4	4,000	.....	.....	.....	.....	.....	.....	4,000
July 2, 1900	3½	4,000	.....	.....	.....	.....	.....	.....	4,000
July 1, 1901	3½	4,000	1,000	.....	.....	.....	.....	.....	5,000
July 1, 1902	3½	3,000	1,000	.....	.....	.....	\$1,000	.....	5,000
July 1, 1903	4	4,000	1,000	.....	.....	.....	.....	.....	5,000
Oct. 1, 1903	4	2,000	.....	.....	.....	.....	.....	.....	2,000
July 1, 1904	4	8,000	1,000	.....	.....	.....	.....	.....	9,000
April 1, 1905	3½	8,000	1,000	.....	.....	.....	.....	.....	9,000
July 1, 1906	4	7,000	1,000	.....	.....	.....	.....	.....	8,000
April 1, 1907	4	11,000	2,000	.....	.....	.....	.....	.....	13,000
April 1, 1908	4	7,000	1,000	.....	.....	.....	.....	.....	8,000
April 1, 1909	3½	11,000	1,000	.....	.....	.....	.....	.....	13,000
April 1, 1910	4	10,000	1,000	.....	.....	.....	.....	\$1,000	13,000
April 1, 1911	4	14,000	1,000	.....	.....	.....	.....	.....	15,000
Jan. 1, 1912	4	11,000	1,000	.....	.....	.....	.....	.....	12,000
July 1, 1912	4	11,000	.....	.....	.....	.....	.....	.....	11,000
Oct. 1, 1912	4	.....	.....	.....	.....	.....	.....	.....	.....
April 1, 1913	4¼	11,000	1,000	.....	.....	.....	.....	.....	12,000
July 1, 1913	4½	.....	.....	.....	.....	\$10,000	.....	.....	10,000
		\$165,000	\$17,000	\$3,000	\$6,000	\$10,000	\$1,000	\$1,000	\$203,000

TABLE C.—SERVICE TRANSFERS (Departmental Transactions).

Treasury Department:—		
Auditing Department		\$79 50
City Clerk's Department:—		
Election Expenses, City Clerk	\$305 00	
Election Expenses, Registrars of Voters	617 33	
Police Department	2 58	
Health Department	3 80	
Central Library	1 29	
		930 00
City Messenger's Department:—		
Highways Maintenance		131 09
Engineering Department:—		
Sidewalks Construction	\$ 99	
Alewife Brook Bridge	16 58	
		17 57
Police Department:—		
Contagious Hospital		41 23
Fire Department:—		
Police Department	\$118 60	
Electrical Department	273 83	
		392 43
Elm-Leaf Beetle Extermination:—		
Care of Trees	\$15 00	
Parks Maintenance	28 13	
		43 13
Highway Department, Care of Trees:—		
Highways Maintenance		83 20
Health Department:—		
Contagious Hospital		21 60
Sewers Construction:—		
Sidewalks Construction		5 67
Sewers Maintenance:—		
Sewers Construction	\$456 99	
City Home	13 50	
		470 49
Highways Construction:—		
Care of Trees	\$ 80	
Refuse Disposal	18 20	
Highways Maintenance	112 18	
Sidewalks Maintenance	12 83	
		144 01
Highways Maintenance:—		
City Messenger	\$251 09	
Engineering Department	50	
Police Department	302 00	
Gypsy and Brown-tail Moth Extermination	27 92	
Elm-leaf Beetle Extermination	51 80	
Care of Trees	863 15	
Shade Trees	208 50	
Sewers Construction	1,624 05	
Refuse Disposal	4,536 33	
Street Cleaning	3,803 80	
Highways Construction	4,876 36	
Sidewalks Construction	5,242 69	
Sidewalks Maintenance	1,841 20	
Amounts carried forward	\$23,629 39	\$2,359 92

Amounts brought forward	\$23,629 39	\$2,359 92
Street Sprinkling	2,786 92	
Maintenance School Buildings	44 86	
Parks Maintenance	351 09	
Playgrounds Extension	143 17	
Summer Playgrounds	18 39	
Water Maintenance	34 29	
		27,008 11
Sidewalks Construction:—		
Highways Construction	\$4 44	
Highways Maintenance	124 41	
Sidewalks Maintenance	18 03	
		146 88
Sidewalks Maintenance:—		
Highways Construction	\$18 72	
Highways Maintenance	59 17	
		77 89
Street Sprinkling:—		
Refuse Disposal		75 00
Poor Department, Miscellaneous:—		
Soldiers' Relief		99 85
Central Library:—		
Treasury Department	\$3 15	
School Contingent	2 65	
		5 80
Parks Maintenance:—		
Sidewalks Construction		107 88
Playgrounds Maintenance:—		
Summer Playgrounds		84 01
Water Maintenance:—		
City Messenger	\$6 98	
City Engineer	188 53	
Maintenance Municipal Buildings	3 24	
Police Department	16 96	
Electrical Department	1 70	
Elm-Leaf Beetle Extermination	24 30	
Inspection of Milk and Vinegar	43 88	
Maintenance Contagious Hospital Building	4 96	
Sewers Construction	5 55	
Sewers Maintenance	7 58	
Refuse Disposal	241 86	
Highways Maintenance	95 69	
Street Sprinkling	86 66	
Maintenance School Buildings	52 23	
Maintenance Central Library Building	2 65	
Parks Maintenance	82 01	
Playgrounds Maintenance	2 42	
Water Works Extension	14,077 33	
		14,944 53
Water Works Extension:—		
Playgrounds Extension		108 26
		<u>\$45,018 13</u>

TABLE D.—REFUNDS.

Law Department: A. C. Getchell, bill paid twice	\$17 50
Health Department: Rutland State Sanatorium, error in pay-roll	1 14
Amount carried forward	<u>\$18 64</u>

Amount brought forward	\$18 64	
Refuse Disposal: Sundry persons, errors in pay-rolls .	15 05	
Highways Maintenance: B. F. Goodrich Company, refund on bill	2 26	
Poor Department: Miscellaneous, Lend-a-Hand Society, money refunded	4 43	
Soldiers' Relief: Sundry persons, money not called for, .	18 00	
State Aid: Sundry persons, money not called for . . .	4 00	
School Contingent:—		
City of Boston, tuition	\$14 30	
F. J. Mahoney, overpayment	14 00	
		28 30
Maintenance School Buildings: Thompson Desk Com- pany, bill paid twice	6 00	
Interest, accrued interest on bond issues, 1913 . . .	2,099 44	
Overlay and Abatement, 1912 and Prior Years, taxes re- funded	7 18	
		<u>\$2,203 30</u>

Offsets to Outlays.

Sewers Construction:—

*Alpha Portland Cement Company, bags returned	\$14 70	
*Eastern Clay Goods Company, bags re- turned	8 46	
		\$23 16

Sidewalks Construction:—

Z. E. Cliff, concreting	\$98 16	
Boston & Maine Railroad, concreting	17 49	
Abutters on Powder House Boulevard	404 00	
Abutters on Elm street	580 00	
Abutters on Washington street	76 21	
	\$1,175 86	

*Eastern Clay Goods Company, bags re- turned	1,062 09	
		2,237 95

Maintenance School Buildings, insurance, damage to Girls' Industrial School (offset for expenses)	40 00	
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\$2,301 11

* To be treated as refund.

TABLE E.—REVENUE.

Corporation Taxes.

Business, 1912	\$176 34	
Business, 1913	17,952 53	
		\$18,128 87
Public Service, 1913	\$8,156 42	
Refund, 1912 account	82 19	
		8,074 23
		\$26,203 10
National Bank Tax, 1913	\$5,494 78	
Refund, 1912 account	148 39	
		5,346 39
Street Railway Tax	36,224 76	
Boston Elevated Railway Tax	10,661 18	
		<u>\$78,435 43</u>
Amount carried forward		

Amount brought forward \$78,435 43

Court Fees and Fines.

Police Court	\$1,941 00	
County Court	65 00	
		2,006 00
Dog Licenses, from County		3,610 34

Interest.

Taxes	\$8,335 49	
Assessments	590 40	
Bank Balances, Treasurer	\$4,460 36	
City Clerk	9 54	
		4,469 90
		13,395 79

Licenses.

Liquor	\$21 75	
Business, City Clerk	2,177 50	
Fireworks	13 00	
Health Department	337 00	
Milk	285 00	
Permits, Marriage	915 00	
All others (from City Clerk)	195 00	
		3,944 25

Departmental Accounts.

Treasury Department:—

Costs: Taxes	\$3,970 28	
Costs: Assessments	186 03	
Certificates: Tax Lien	302 00	
Redemption	17 00	
Collecting National Bank Tax	17 07	
Telephone, Joseph S. Pike	12 00	
		4,504 38

City Clerk's Department, receipts 1,130 73

Commissioner of Public Buildings, telephone tolls 2 90

Engineering Department, plans for sundry streets 59 00

Police Department:—

Cloth and equipment	\$350 95	
Services of officers	22 50	
Sundries	28 95	
		402 40

Maintenance Police Building: Rent, from County 1,250 00

Fire Department:—

Fines, callmen	\$673 00	
Sale of old material	35 08	
		708 08

Weights and Measures Department, fees 475 90

Electrical Department:—

Edison Electric Illuminating Company, grounding wires	\$250 00	
Damage to automobile	60 00	
		310 00

Gypsy and Brown-tail Moth Extermination Assessments
(in taxes) 580 04

Amount carried forward \$110,815 24

Amount brought forward		\$110,815 24	
Health Department:—			
Commonwealth of Massachusetts	\$46 00		
Cities and Towns	22 86		
			68 86
Inspection of Animals and Provisions, telephone tolls			70
Inspection of Milk and Vinegar:—			
H. E. Bowman	\$24 00		
Sundry persons, analytical work	168 00		
			192 00
Contagious Hospital:—			
Commonwealth of Massachusetts	\$2,767 30		
County of Middlesex	93 47		
Cities and Towns	7,207 97		
Sundry persons	1,518 97		
			11,587 71
Highways, Refuse Disposal:—			
D. DeStefano, use of incinerator	\$1,020 00		
City Home, garbage	504 70		
Sundry persons, garbage	8,990 45		
			10,515 15
Highways Maintenance:—			
Sundry persons, constructing and dis- continuing driveways	\$673 90		
Sundry persons, labor and materials	549 39		
			1,223 29
Sidewalks Maintenance, sundry persons, repairs			20 26
Highways, Street Sprinkling:—			
Assessed in taxes	\$34,854 95		
Abutters on sundry streets	223 36		
			35,078 31
Maintenance Highway Buildings, rent of tenements			240 00
Poor Department, Miscellaneous:—			
Commonwealth of Massachusetts	\$1,275 88		
Cities and Towns	3,285 61		
Sundry persons	36 15		
			4,597 64
City Home:—			
J. Foster Colquhoun, produce	\$4,681 86		
Contagious Hospital, produce	243 25		
Cities and Towns, board	540 05		
Sundry persons, board	60 99		
			5,526 15
Soldiers' Benefits:—			
Soldiers' Relief, Cities and Towns	\$60 00		
Military Aid, Common- wealth of Massachusetts	\$224 50		
State Aid, Commonwealth of Massachusetts	15,033 50		
Soldiers' Burials, Com- monwealth of Massachu- setts	635 00		
Cash advanced in 1913	15,893 00		
			15,953 00
School Contingent:—			
Commonwealth of Massachusetts:—			
Separate Industrial Schools	\$7,004 87		
Amounts carried forward	\$7,004 87	\$195,818 31	

Amounts brought forward	\$7,004 87	\$195,818 31
Tuition, Boston Evening Schools	130 59	
Tuition state wards	258 00	
Sundry persons, tuition	260 61	
Cities and Towns, tuition	415 84	
Forfeiture of deposits, evening schools	187 00	
Supplies sold	28 79	
		8,285 70
Maintenance School Buildings:—		
Walter T. Littlefield	\$116 14	
Sundry persons, rent of ward rooms, etc.	98 35	
		214 49
Libraries, fines		1,154 20
Parks Maintenance, Boston Elevated Railway		100 00
Playgrounds Maintenance, Somerville High School Athletic Association		50 00
Somerville Field:—		
Somerville High School Athletic Association	\$450 00	
Sundry persons	39 00	
		489 00
Maintenance Bathhouse:—		
Walter T. Littlefield, Commissioner of Public Buildings, bathhouse receipts		815 53
Miscellaneous		112 80
Water Maintenance:—		
Sundry persons, pipe, fittings, etc.	\$3,700 31	
Edison Electric Illuminating Company, grounding wires	250 00	
		3,950 31
Water Service Assessments:—		
Sundry persons, water services		5,079 51
Water Works Income:—		
Sales of Water:—		
Metered Water Charges, fourth quarter, 1913, uncollected	\$19,634 64	
Received of sundry water takers	212,673 80	
		\$232,308 44
Less refunds and abatements	246 67	
		232,061 77
		\$448,131 62
Revenue received in cash		\$377,646 24
Gypsy and Brown-tail Moth Assessments (in taxes)	\$580 04	
Street Sprinkling Assessments (in taxes)	34,854 95	
		35,434 99
Commonwealth of Massachusetts:—		
Military Aid	\$224 50	
State Aid	15,033 50	
Soldiers' Burials	635 00	
		15,893 00
Metered Water Charges, fourth quarter, district 1		19,634 64
		\$448,608 87
Amount carried forward		\$448,608 87

Amount brought forward		\$448,608 87
Cash Refunds:—		
Corporation Taxes, Public Service	\$82 19	
National Bank Tax	148 39	
Water Charges	245 27	
	\$475 85	
Abatement Water Charges	1 40	
		477 25
		\$448,131 62

TABLE F.—GENERAL ACCOUNTS AND BALANCES.**Cash.**

	RECEIPTS.	
Balance from 1912		\$223,792 03
Revenue (See Table E)	\$377,646 24	
Taxes, 1910	\$98 65	
1911	776 29	
1912	268,580 63	
1913	1,217,545 87	
	1,487,001 44	
Metered Water Charges	19,144 50	
Highway Betterment Assessments	4,775 82	
Sewer Assessments	7,989 70	
Sidewalk Assessments	17,554 36	
Commonwealth of Massachusetts:—		
Account liquor licenses	\$7 25	
Due for advances, 1912	16,275 00	
	16,282 25	
Temporary Loans: Taxes	\$860,000 00	
Grade Crossings	75,000 00	
	935,000 00	
Grade Crossings (cash advances)	18,784 00	
Redemption of Tax Liens	1,399 37	
Guarantee Deposits	1,500 00	
Funded Debt	222,000 00	
Trust Funds, Income:—		
Public School: S. Newton Cutler	100 00	
Public Library: Isaac Pitman, Art	90 14	
Isaac Pitman, Poetry	22 54	
Frances A. Wilder		
Children's Depart-		
ment	4 04	
Martha R. Hunt, Books	494 24	
S. Newton Cutler	20 00	
Gifts: Carnegie Corporation	75,000 00	
Reduction of Funded Debt, premium on		
bonds	1,836 90	
Credits to Appropriation accounts:—		
Refunds (See Table D)	2,203 30	
Offsets to Outlays (See Table D)	2,301 11	
	\$3,191,149 95	
Service Transfers (See Table C)	45,018 13	
		3,236,168 08
		\$3,459,960 11

PAYMENTS.

Refunds of Revenue (See Table E)	\$475 85
Board of Aldermen Expenses	789 82
Clerk of Committees and Departments	3,950 00
Executive Department	4,762 62
Auditing Department	1,345 00
Treasury Department	13,680 90
Assessors' Department	11,092 80
City Clerk's Department	7,723 20
Law Department	2,318 80
City Messenger's Department	2,717 38
Engineering Department	11,567 35
Commissioner of Public Buildings	4,469 92
Maintenance Municipal Buildings	5,573 17
Certification of Notes and Bonds	637 50
Registration of City Laborers	330 70
Election Expenses, City Clerk	1,898 56
Registrars of Voters	2,313 44
Pay of Election Officers,	3,248 00
Polling Places	687 89
Police Department	103,792 20
Maintenance Police Buildings	3,118 19
Police Signal System	7,750 00
New Cells, Police Station	953 19
Fire Department	109,361 92
Maintenance Fire Buildings	5,377 66
Fire Department, Additional Apparatus	5,800 00
Militia	500 00
Weights and Measures Department	2,533 53
Electrical Department	9,406 73
Electrical Department, Underground Construction	2,333 53
Gypsy and Brown-tail Moth Extermination,	2,400 00
Elm-leaf Beetle Extermination	734 06
Care of Trees	3,526 40
Shade Trees	596 03
Health Department	10,648 07
Inspection of Animals and Provisions	1,233 38
Inspection of Milk and Vinegar	1,770 41
Inspection of School Children	1,775 26
Vital Statistics	887 72
Contagious Hospital	16,990 97
Maintenance Contagious Hospital	3,384 59
Sewers Construction	26,694 91
Sewers Maintenance	14,170 44
Maintenance Sewer Buildings	89 38
Refuse Disposal	81,824 86
Maintenance Refuse Buildings	993 19
Street Cleaning	22,601 30
Highways Construction	36,823 92
Highways Maintenance	61,826 86
Highway Department, Steam Roller	4,400 00
Sidewalks Construction	41,620 01
Sidewalks Maintenance	4,519 77
Street Sprinkling	26,321 85
Street Lighting	56,000 00
Maintenance Highway Buildings	1,256 50

Amount carried forward \$753,599 73

Amount brought forward	\$753,599 73
Alewife Brook Bridge	3,500 00
Poor Department, Miscellaneous	21,827 73
Poor Department, City Home	10,948 15
Maintenance City Home Buildings	2,437 71
City Home Addition	120 10
Somerville Hospital	5,000 00
Soldiers' Relief	21,555 99
Military Aid	449 00
State Aid	15,037 50
Soldiers' Burials	635 00
School Contingent	35,999 36
School Teachers' Salaries	318,957 18
Maintenance School Buildings	73,412 72
S. Newton Cutler School	4,474 59
High School Addition	113,617 98
School Buildings, Fire Exits	2,155 04
S. Newton Cutler School, Grading Land	1,063 90
Bell School, Additional Window Space	1,188 53
Bingham School, Construction of Hall	1,950 46
High School, Furnishing and Equipment	12,130 75
Central Heating Plant	20,416 00
Public School Trust Funds, Income	20 00
Public Library Construction	90,570 22
Central Library	25,005 80
Maintenance Central Library Building	3,349 77
West Somerville Branch Library	5,999 90
Maintenance West Somerville Branch Li- brary Building	1,637 16
East Somerville Branch Library	2,499 45
Maintenance East Somerville Branch Li- brary Building	642 85
Union Square Branch Library	2,499 05
Maintenance Union Square Branch Library Building	897 62
Public Library Trust Funds, Income:—	
Isaac Pitman Fund, Art	259 67
Isaac Pitman Fund, Poetry	67 68
Martha R. Hunt Fund, Books	561 50
S. Newton Cutler	44 51
Engineering Department, Parks Mainte- nance	7,757 55
Maintenance Park Buildings	299 39
Playgrounds Maintenance	3,433 70
Playgrounds Extension	704 23
Lincoln Park Shower Baths	994 50
Summer Playgrounds	2,499 60
Maintenance Bathhouse	2,297 40
Memorial Day	425 00
Independence Day	500 00
Municipal Documents	1,609 62
Contingent Fund	273 54
Interest	80,797 24
Reduction of Funded Debt	222,000 00
Water Maintenance	53,429 18
Water Works Extension	20,332 70
Maintenance Water Buildings	989 35
Amount carried forward	\$1,952,875 60

Amount brought forward	\$1,952,875 60	
Overlay and Abatement, 1913	15 84	
Coupons	27,072 50	
Commonwealth of Massachusetts, taxes, etc.	370,515 36	
Commonwealth of Massachusetts, 25 per cent. of liquor licenses	7 25	
County of Middlesex	63,565 14	
Temporary Loans	860,000 00	
Grade Crossings	49,165 59	
Redemption of Tax Liens	1,399 37	
Sundry Persons	100 00	
Guarantee Deposits	1,500 00	
	\$3,326,216 65	
Balance to debit of account, 1914	133,743 46	
		<u>\$3,459,960 11</u>

Taxes.

CREDIT.

Receipts:—					
Cash, received for taxes of 1910				\$98 65	
“ “ “ “ 1911				776 29	
“ “ “ “ 1912				268,580 63	
“ “ “ “ 1913				1,217,545 87	
					1,487,001 44
Overlay and Abatement:—					
Abatement on taxes of 1910				\$560 30	
“ “ “ “ 1911				1,663 64	
“ “ “ “ 1912				5,566 03	
“ “ “ “ 1913				7,219 91	
					15,009 88
Balance to debit of account, 1914:—					
Being uncollected taxes of 1910				\$2 00	
“ “ “ “ 1911				162 92	
“ “ “ “ 1912				919 61	
“ “ “ “ 1913				287,883 15	
					288,967 68
					<u>\$1,790,979 00</u>

DEBIT.

Balance from 1912	\$278,330 07	
Tax levy, as per assessors' warrant of August 5, 1913	1,507,418 41	
Supplementary Warrants, amounts credited to Overlay and Abatement, 1913 ac- count	5,230 52	
		<u>\$1,790,979 00</u>

Overlay and Abatement, 1912 and Prior Years.

CREDIT.

Balance from 1912	\$13,608 55	
Real Estate Liens account, amount transferred	691 43	
		\$12,917 12
Balance to credit of account, 1914	5,134 33	
		<u>\$7,782 79</u>

DEBIT.

Taxes, amount of abatements	\$7,789 97	
Refunds, taxes refunded	7 18	
		\$7,782 79

Overlay and Abatement, 1913.

CREDIT.

Taxes, amount of overlay from assessors' warrant . . .	\$19,552 04	
Amount of assessors' supplementary warrants, 1913 . . .	5,230 52	
		\$24,782 56
Balance to credit of account, 1914	17,546 81	
		\$7,235 75

DEBIT.

Taxes, amount of abatements	\$7,219 91	
Cash, paid sundry persons, money refunded, ...	15 84	
		\$7,235 75

Real Estate Liens.

DEBIT.

Balance from 1912	\$691 43	
Overlay and Abatement, 1912 and prior years account, amount transferred	691 43	

Revenue.

CREDIT.

Excess and Deficiency account; balance from 1912 transferred	\$13,419 70	
Revenue (See Table E)	448,131 62	
		\$461,551 32
Excess and Deficiency, balance to debit of account . . .	899 60	
		\$462,450 92
Appropriated in Budget	\$446,760 34	
Unexpended balance, 1912	13,419 70	
		\$460,180 04
Metropolitan Water Assessment, in excess of estimate	1,120 88	
Transferred to the following accounts:—		
Contagious Hospital	1,000 00	
Parks Maintenance	50 00	
Playgrounds Maintenance	50 00	
Engineering Department	50 00	
		\$462,450 92

Metered Water Charges.

CREDIT.

Cash, received of sundry water takers	\$19,144 50	
Water Works Income, abatements (See Revenue, Table E)	1 40	
		\$19,145 90
Balance to debit of account, 1914	19,634 64	
		\$38,780 54

DEBIT.

Balance from 1912	\$19,145 90	
Last quarter, district No. 1 uncollected,	19,634 64	
		<u>\$38,780 54</u>

Highway Betterment Assessments.

CREDIT.

Cash, received of sundry persons	\$4,775 82	
Balance to debit of account, 1914	4,949 32	
		<u>\$9,725 14</u>

DEBIT.

Balance from 1912	\$2,589 69	
Highways Construction account, assessments levied	7,135 45	
		<u>\$9,725 14</u>

Sidewalk Assessments.

CREDIT.

Receipts:—

Cash, received of sundry persons	\$17,554 36	
Balance to debit of account, 1914	13,492 98	
		<u>\$31,047 34</u>

DEBIT.

Balance from 1912	\$12,865 21	
Sidewalks Construction account, assessments levied, \$18,198 89		
Less abatements 16 76		
	<u>18,182 13</u>	
		<u>\$31,047 34</u>

Sewer Assessments.

CREDIT.

Cash, received of sundry persons	\$7,989 70	
Balance to debit of account, 1914	1,969 05	
		<u>\$9,958 75</u>

DEBIT.

Balance from 1912	\$8,242 54	
Sewers Construction account, assessments levied	1,716 21	
		<u>\$9,958 75</u>

***Coupons.**

CREDIT.

Balance of coupons unpaid January 1, 1913	\$14,765 00	
Coupons maturing April 1, 1913:—		
Water Loan	\$320 00	
Sewer Loan	1,785 00	
City Loan	8,942 50	
Bridge Loan	560 00	
Municipal Loan	700 00	
	<u>12,307 50</u>	
		<u>\$27,072 50</u>

* Beginning with July 1, charges have been made direct to Interest account instead of to Coupons account.

DEBIT.

Cash, paid coupons	\$27,072 50
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Commonwealth of Massachusetts.**State Tax and Assessments.**

State Tax	\$126,000 00
Metropolitan Sewer Assessment:—	
Sinking Fund	\$15,317 16
Serial Bond Requirements	356 24
Interest	29,138 47
Maintenance and Operation	24,913 50
	69,725 37
Metropolitan Park Assessment:—	
Sinking Fund	\$4,555 46
Serial Bond Requirements	221 50
Interest	13,465 99
Maintenance and Operation	17,914 65
	36,157 60
Wellington Bridge Assessment	631 31
Charles River Basin Assessment:—	
Serial Bond Requirements	\$200 64
Interest	2,729 77
Maintenance and Operation	3,419 15
	6,349 56
Alewife Brook Assessment:—	
Assessment	\$750 00
Interest	472 50
	1,222 50
Abatement of Smoke	247 44
Metropolitan Water Assessment:—	
Sinking Fund	\$24,930 94
Serial Bond Requirements	491 92
Interest	70,206 83
Maintenance and Operation	20,691 19
	116,320 88
State Highway Tax	58 00
Grade Crossings Assessments:—	
Assessment	\$9,354 19
Interest	2,737 08
	12,091 27
Tax on Non-resident Bank Shares	1,711 43
	\$370,515 36
Cash paid	\$370,515 36

Soldiers' Benefits.

Military Aid, 1912	\$342 00
State Aid, 1912	15,563 00
Soldiers' Burials, 1912	370 00
	\$16,275 00
Military Aid, 1913	\$224 50
State Aid, 1913	15,033 50
Soldiers' Burials, 1913	635 00
	15,893 00
	\$32,168 00
Cash received	16,275 00
	\$15,893 00

Liquor License Fees.

25 per cent. of liquor license fees	\$7 25
Cash paid	<u>\$7 25</u>

County of Middlesex.

CREDIT.

Taxes, 1913, county tax	\$63,565 14
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DEBIT.

(Expenditures.)

Cash, paid county tax	<u>\$63,565 14</u>
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Temporary Loans.**In Anticipation of Taxes.**

CREDIT.

Balance from 1912	\$350,000 00
Cash, borrowed by authority of the Board of Aldermen on notes as follows:—	
City Notes Nos. 151, 153-160, 266 days, 3.43 per cent., discounted	\$150,000 00
City Note No. 161, 233 days, 4¼ per cent., discounted	20,000 00
City Note No. 162, 239 days, 4¼ per cent., discounted	50,000 00
City Note No. 163, 7 months, 21 days, 4½ per cent., discounted	80,000 00
City Notes Nos. 164-171, 224 days, 4½ per cent., discounted	60,000 00
City Notes Nos. 172-173, 229 days, 4½ per cent., discounted	20,000 00
City Note No. 174, 232 days, 4½ per cent., discounted	10,000 00
City Notes Nos. 175-180, 227 days, 4.68 per cent., discounted	60,000 00
City Notes Nos. 183-188, 213 days, 4¼ per cent., discounted	60,000 00
City Notes Nos. 189-199, 314 days, 4½ per cent., discounted	140,000 00
City Notes Nos. 200-211, 254 days, 5¼ per cent., discounted	100,000 00
City Notes Nos. 202-203, 249 days, 4¾ per cent., discounted	50,000 00
City Note No. 204, 265 days, 4.59 per cent., discounted	60,000 00
	<u>860,000 00</u>

\$1,210,000 00

DEBIT.

(Expenditures.)

Cash, paid as follows:—

City Notes Nos. 145-150	\$150,000 00
City Notes Nos. 120-125	100,000 00
City Notes Nos. 129-135	100,000 00
City Notes Nos. 151, 153-160	<u>150,000 00</u>

Amount carried forward \$500,000 00

Amount brought forward	\$500,000 00	
City Note No. 161	20,000 00	
City Note No. 162	50,000 00	
City Note No. 163	80,000 00	
City Notes Nos. 164-171	60,000 00	
City Notes Nos. 172-173	20,000 00	
City Note No. 174	10,000 00	
City Notes Nos. 175-180	60,000 00	
City Notes Nos. 183-188	60,000 00	
		\$860,000 00
Balance to credit of account, 1914		350,000 00
		<u>\$1,210,000 00</u>

Abolition of Grade Crossings.

CREDIT.

Cash, borrowed by authority of the Board of Aldermen, 99 days, at 3.93 per cent.	\$75,000 00
Balance to credit of account, 1914	<u>\$75,000 00</u>

Grade Crossings.

CREDIT.

Receipts:—

Decree on Auditor's Fifth Report, Certain Grade Crossings:—	
Commonwealth of Massachusetts	\$13,759 00
Decree on Auditor's Eighth Report, Somerville Avenue:—	
Commonwealth of Massachusetts	\$3,725 52
Boston & Albany Railroad	1,299 48
	5,025 00
	\$18,784 00
Balance to debit of account, 1914	48,613 61
	\$67,397 61

DEBIT.

(Expenditures.)

Balance from 1912		\$18,232 02
Cash, paid Horace W. Andrews, settlement, ...	\$1,900 00	
American Tube Works, settlement	2,025 58	
William Armstrong, settlement	1,400 00	
Cesare Bacci, settlement	575 00	
Edward A. Binney, appraising	11 25	
Mary Buckley, settlement	1,250 00	
Frank W. Crocker, Mabel Swift Moore, and Fred E. Bailey, Trustees, set- tlement	1,300 00	
Bridget Crotty, settlement	1,200 00	
Mary C. Crotty, settlement	1,200 00	
William T. Crotty, settlement	1,205 00	
Catherine C. Cotter, settlement	40 00	
Estate Catherine J. Flaherty, settlement	1,750 00	
Matilda Gosse, settlement	1,515 00	
Eugene H. Jones, photographs	12 00	
John C. Madden, Attorney for Luigi Fer- razani, settlement	150 00	
Amounts carried forward	\$15,533 83	\$18,232 02

Amounts brought forward	\$15,533 83	\$18,232 02
Charles S. McGlone, settlement	40 00	
Julia A. McGlone, settlement	350 00	
J. Edward L. McLean, experts	271 50	
New England Dressed Meat & Wool Co., settlement	26,000 00	
Bernard O'Neil, settlement	1,450 00	
James J., William A., Ellen V. and Mar- garet O'Brien, settlement	40 00	
Nathan H. Reed, services	60 00	
F. E. Rollins, copy and evidence	77 10	
Patrick J. and Mary Russell, settlement .	30 00	
J. Walter Sanborn, settlement	2,900 00	
Anthony Sheridan, settlement	225 00	
Augustus L. Sylvester and Mary O. de Guglielmo, settlement	1,750 00	
Frank Sloane and Elizabeth G. Sloane, settlement	375 00	
Harry Van Iderstine, services	63 16	
		49,165 59
		<u>\$67,397 61</u>

Redemption of Tax Liens.

CREDIT.

Receipts:—

Cash, received of sundry persons, redemption of tax liens, \$1,399 37

DEBIT.

(Expenditures.)

Cash, paid sundry persons, redemption of tax liens . . . \$1,399 37**Overplus on Tax Sales.**

CREDIT.

Balance from 1912 \$118 13

DEBIT.

Balance to credit of account, 1914 \$118 13**Sundry Persons.**

CREDIT.

Balance from 1912 \$719 56

Balance to credit of account, 1914 619 56

\$100 00

DEBIT.

(Expenditures.)

Cash, paid sundry persons \$100 00**Guarantee Deposits.**

CREDIT.

Cash, received of J. H. Fannon, guarantee deposits . . . \$1,500 00

DEBIT.

(Expenditures.)

Cash, paid J. H. Fannon, deposits returned \$1,500 00

Public Library Trust Funds.

CREDIT.

Balance from 1912	\$21,414 58
Balance to credit of account, 1914	<u>\$21,414 58</u>

Public Library Trust Funds, Investment.

CREDIT.

Balance to debit of account, 1914	\$21,414 58
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DEBIT.

Balance from 1912	<u>\$21,414 58</u>
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Public School Trust Funds.

CREDIT.

Balance from 1912	\$5,000 00
Balance to credit of account, 1914	<u>\$5,000 00</u>

Public School Trust Funds, Investment.

CREDIT.

Balance to debit of account, 1914	\$5,000 00
Balance from 1912	<u>\$5,000 00</u>

Public Property.

CREDIT.

Balance to debit of account, 1914	\$5,977,905 82
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DEBIT.

Property and Debt Balance, property acquired in 1913	\$300,867 19
Balance from 1912	<u>5,677,038 63</u>
	<u>\$5,977,905 82</u>

Funded Debt.

CREDIT.

Funded Debt, January 1, 1913	\$1,674,000 00
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Issues of 1913:—

City Loan Bonds Nos. 4461 to 4565	\$105,000 00
Sewer Loan Bonds Nos. 564 to 593	30,000 00
Municipal Loan Bonds Nos. 4566 to 4652	87,000 00

222,000 00

\$1,896,000 00

DEBIT.

Bonds maturing in 1913	\$222,000 00
Present Funded Debt, balance of account	<u>1,674,000 00</u>

\$1,896,000 00
Property and Debt Balance.

CREDIT.

Balance from 1912	\$4,003,038 63
Public Property, property acquired in 1913	300,867 19
Funded Debt, bonds maturing in 1913	<u>222,000 00</u>

\$4,525,905 82

DEBIT.

Funded Debt, issues of 1913	\$222,000 00	
Balance to credit of account, 1914	4,303,905 82	
		<u>\$4,525,905 82</u>

Excess and Deficiency.

CREDIT.

Balance from 1912	\$13,419 70	
Revenue account, amount transferred	\$13,419 70	
		<u>\$13,419 70</u>

Balances of 1913 accounts:—

	Debit.	Credit.
Board of Aldermen Expenses		\$10 18
Executive Department		37 38
Auditing Department		5 00
Treasury Department		98 60
Assessors' Department		7 20
City Clerk's Department		1 80
Law Department		98 70
City Messenger's Department		13 71
Engineering Department		22
Commissioner Public Buildings		7 60
Maintenance Municipal Buildings		76 83
Registration City Laborers		119 30
Election Expenses, City Clerk		3 72
Registrars of Voters		1 56
Polling Places		12 11
Police Department		249 03
Maintenance Police Buildings		31 81
Fire Department		30 51
Maintenance Fire Buildings		72 34
Electrical Department		593 27
Health Department		124 67
Inspection of Animals and Provisions		16 62
Inspection of Milk and Vinegar		29 59
Inspection of School Children		24 74
Contagious Hospital		9 03
Maintenance Contagious Hospital Building, ...		15 41
Sewers Maintenance		05
Maintenance Sewer Buildings		35 62
Maintenance Refuse Buildings		6 81
Poor Department, Miscellaneous		32 85
Maintenance City Home Building		2 29
Soldiers' Relief		62 01
Military Aid		251 00
State Aid		966 50
Soldiers' Burials		265 00
School Contingent		28 94
School Teachers' Salaries		2 82
Maintenance School Buildings		8 28
Maintenance Central Library Building		23
West Somerville Branch Library		10
Maintenance West Somerville Branch Li- brary Building		22 84
East Somerville Branch Library		55
Amount carried forward		<u>\$3,376 82</u>

Amount brought forward		\$3,376 82
Maintenance East Somerville Branch Li- brary Building		57 15
Union Square Branch Library		95
Maintenance Union Square Branch Li- brary Building		2 38
Parks Maintenance		33
Maintenance Park Buildings		61
Playgrounds Maintenance		31
Summer Playgrounds		40
Maintenance Bathhouse		2 60
Municipal Documents		15 38
Contingent Fund		2,346 02
Interest		494 70
Water Maintenance		1,015 35
Water Works Extension		1,275 56
Maintenance Water Buildings		83 13
Revenue	\$899 60	
	\$899 60	\$8,671 69
Balance to credit of account, 1914	7,772 09	
	\$8,671 69	\$8,671 69

Balances.**General Accounts.**

Cash	\$133,743 46	
Taxes, 1910	2 00	
1911	162 92	
1912	919 61	
1913	287,883 15	
Overlay and Abatement, 1912 and prior years		\$5,134 33
Overlay and Abatement, 1913		17,546 81
Metered Water Charges	19,634 64	
Highway Betterment Assessments	4,949 32	
Sidewalk Assessments	13,492 98	
Sewer Assessments	1,969 05	
Commonwealth of Massachusetts	15,893 00	
Temporary Loans:—		
In anticipation of Taxes		350,000 00
Abolition of Grade Crossings		75,000 00
Grade Crossings	48,613 61	
Overplus on Tax Sales		118 13
Sundry Persons		619 56

Maintenance Accounts.

See Excess and Deficiency account, pre- ceding	899 60	8,671 69
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Non-Revenue Accounts.

See Credit Balances, Funded Debt Appro- priations, in first part of report		68,949 03
Reduction of Funded Debt		1,836 90
Amounts carried forward	\$528,163 34	\$527,876 45

Amounts brought forward	\$528,163 34	\$527,876 45
Trust Funds.		
Public School		5,000 00
Public School, Investment	5,000 00	
Public Library		21,414 58
Public Library, Investment	21,414 58	
Income:—		
Public School, S. Newton Cutler		205 00
Public Library:—		
Isaac Pitman, Art		6 88
Poetry		1 14
Frances A. Wilder, Children's Department		17 35
Martha R. Hunt, Books		3 53
Art		52 50
S. Newton Cutler		49
	<u>\$554,577 92</u>	<u>\$554,577 92</u>

TABLE G.—STATEMENT OF ACCOUNTS, SHOWING APPROPRIATIONS, EXPENDITURES, ETC., TO DECEMBER 31, 1913.

Appropriations.

CREDIT.		
Taxes, amount assessed for municipal purposes	\$1,134,671 76	
From Estimated Revenue	446,760 34	
Unexpended Balance, 1912	13,419 70	
Property and Debt Balance, amount provided by issues of bonds	222,000 00	
		<u>\$1,816,851 80</u>

DEBIT.

Appropriations:—

General Government.

Board of Aldermen Expenses	\$800 00
Clerk of Committees and Departments	3,950 00
Executive Department	4,800 00
Auditing Department	1,350 00
Treasury Department	13,700 00
Assessors' Department	11,100 00
Certification of Notes and Bonds	450 00
City Clerk's Department	5,800 00
Registration of City Laborers	450 00
Law Department	2,400 00
City Messenger's Department	1,600 00
Engineering Department	11,500 00
Commissioner of Public Buildings	4,500 00
Maintenance Municipal Buildings	6,150 00

Total General Government	\$68,550 00
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Election Expenses.

City Clerk	\$1,400 00
Registrars of Voters	2,400 00

Amounts carried forward	<u>\$3,800 00</u>	<u>\$68,550 00</u>
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Amounts brought forward	\$3,800 00	\$68,550 00
Pay of Election Officers	3,248 00	
Polling Places :	700 00	
Total Election Expenses		\$7,748 00
		\$76,298 00

Protection of Life and Property.

Police Department	\$100,000 00
Maintenance Police Building	3,800 00
Fire Department	99,000 00
Maintenance Fire Buildings	4,800 00
Militia	500 00
Weights and Measures Department	2,500 00
Electrical Department	10,000 00

Forestry.

Gypsy and Brown-tail Moth Extermination, ...	\$2,400 00
Elm-leaf Beetle Extermination	700 00
Highways, Care of Trees	2,500 00

Total Protection Life and Property \$226,200 00

Health and Sanitation.**Health:—**

Health Department	\$10,400 00
Inspection of Animals and Provisions	1,250 00
Inspection of Milk and Vinegar	1,800 00
Inspection of School Children	2,150 00
City Clerk's Department, Vital Statistics	2,300 00
Contagious Hospital	12,000 00
Maintenance Contagious Hospital	3,400 00

Sanitation:—

Engineering Department, Sewers Maintenance	13,000 00
Maintenance Sewer Buildings	200 00
Highways, Refuse Disposal	73,000 00
Maintenance Refuse Buildings	1,000 00
Highways, Street Cleaning	21,000 00

Total Health and Sanitation \$141,500 00

Highways.

Highways, Maintenance	\$33,000 00
Highways, Sidewalks Maintenance	5,000 00
Street Sprinkling	28,000 00
Street Lighting	56,000 00
Maintenance Highway Buildings	1,000 00

Total Highways \$123,000 00

Charities.

Support of Poor, Miscellaneous	\$20,000 00
Support of Poor, City Home	9,000 00

Amounts carried forward \$29,000 00 \$566,998 00

Amounts brought forward	\$29,000 00	\$566,998 00
Maintenance City Home Buildings	2,300 00	
Somerville Hospital	5,000 00	

Total Charities		\$36,300 00
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Soldiers' Benefits.

Soldiers' Relief	\$22,000 00	
Military Aid	700 00	
State Aid	16,000 00	
Soldiers' Burials	500 00	

Total Soldiers' Benefits		\$39,200 00
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Education.

School Contingent	\$32,000 00	
School Teachers' Salaries	306,000 00	
Maintenance School Buildings	69,000 00	

Total Education		\$407,000 00
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Libraries.

Central Library	\$21,000 00	
Maintenance Central Library	3,600 00	
West Somerville Branch Library	6,000 00	
Maintenance West Somerville Branch Library	1,800 00	
East Somerville Branch Library	2,500 00	
Maintenance East Somerville Branch Library	800 00	
Union Square Branch Library	2,500 00	
Maintenance Union Square Branch Library	900 00	

Total Libraries		\$39,100 00
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Recreation.

Engineering Department, Parks Maintenance	\$8,300 00	
Maintenance Park Buildings	300 00	
Engineering Department, Playgrounds Maintenance	3,300 00	
School Department, Summer Playgrounds	2,500 00	
Maintenance Bathhouse	2,200 00	

Celebrations.

Memorial Day	425 00	
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Total Recreation		\$17,025 00
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Unclassified.

Municipal Documents	\$1,625 00	
Contingent Fund	1,652 00	

Total Unclassified		\$3,277 00
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Amount carried forward		\$1,108,900 00
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Amount brought forward \$1,108,900 00

Municipal Indebtedness.

Interest \$90,000 00
Reduction of Funded Debt 210,151 80

Total Municipal Indebtedness \$300,151 80

Water Works.

Water Maintenance \$37,000 00
Interest on Water Loan Bonds 1,500 00
Reduction of Funded Debt, Water Loan
Bonds 6,000 00
Metropolitan Water Assessment (esti-
mated) 115,200 00
Water Work Extension 25,000 00
Maintenance Water Buildings 1,100 00

Total Water Works 185,800 00

\$1,594,851 80

Appropriations on Funded Debt account (see first part
of Treasurer's Report) 222,000 00

\$1,816,851 80

GENERAL GOVERNMENT.

Board of Aldermen Expenses.

CREDIT.

Appropriation \$800 00
Excess and Deficiency account, balance transferred 10 18

\$789 82

DEBIT.

(Expenditures.)

Cash, paid Doane & Co., repairing badges,
etc. \$1 75
Boston Regalia Co., gavels 3 00
Robert Burlen, binding 3 50
Boulevard Auto Co., car hire 70 50
John F. Biggs & Co., registers and print-
ing 202 60
Horace A. Edgecomb, stenographic ser-
vices 10 00
Thomas Groom & Co., pen holders 18 00
F. R. Garrett, lunch 3 95
E. F. Hicks, lunch 38 00
John J. Kingsley, jewelry work 4 70
Mitchell Mfg. Co., badges 10 50
New American House, dinners 14 00
Pneumatic Hand Stamp Co., stamps 2 44
The Quincy, dinners 23 00
Relay House, dinners 14 00
Somerville Post Office, postage 52 56
Somerville Enterprise Publishing Co.,
advertising 14 75

Amount carried forward \$487 25

Amount brought forward	\$487 25	
Somerville Journal Co., printing and ad- vertising	99 57	
Walter H. Snow & Sons, catering	170 00	
Somerville Publishing Co., printing and advertising	33 00	
		<u>\$789 82</u>

Clerk of Committees and Departments.

CREDIT.

Appropriation	\$3,950 00
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DEBIT.

(Expenditures.)

Cash, paid William P. Mitchell, salary as clerk of committees and departments	\$2,100 00	
Richard A. Keyes, assistant	1,034 22	
appointment as notary, ...	7 00	
Lucia A. Manning, assistant	600 00	
Thomas Groom & Co., books and station- ery	34 25	
W. A. Greenough & Co., directory	4 00	
Hoffman Seal, Stamp and Engraving Co., seal	3 00	
Howard Lowell & Son, carriage hire	6 00	
New England Telephone & Telegraph Co., service	58 19	
Pneumatic Hand Stamp Co., stamps	9 41	
Somerville Post Office, postage	61 68	
Somerville Journal Co., printing	25 75	
Sampson & Murdock Co., directory	6 50	
		<u>\$3,950 00</u>

Executive Department.

CREDIT.

Appropriation	\$4,800 00
Excess and Deficiency account, balance transferred	37 38

\$4,762 62

DEBIT.

(Expenditures.)

Cash, paid Charles A. Burns, salary as mayor	\$2,500 00	
Fred E. Warren, secretary to the mayor	1,400 00	
A. R. Andrews Co., stationery	1 25	
American Express Co., expressing	40	
Bunker's Flower Store, flowers	20 00	
Boulevard Auto Co., auto hire	85 00	
The Bullard Co., survey	98	
Carter's Ink Co., ink	1 13	
W. A. Greenough & Co., directory	4 00	
Hill-Michie Co., investigating trucks	200 00	
auto hire	73 75	
J. W. Howard, flowers	51 90	
Amount carried forward	\$4,338 41	

Amount brought forward	\$4,338 41	
Everett Hooper, M. D., professional services	10 00	
Howard Lowell & Son, carriage hire	21 50	
Wesley A. Maynard, printing	2 50	
New England Telephone & Telegraph Co. service	57 20	
Somerville Post Office, postage	82 18	
Somerville Y. M. C. A., rent of hall	20 00	
Somerville Journal Co., printing	86 54	
Sampson & Murdock, directory	6 50	
Samuel Ward Co., invitations and stationery	137 79	
		<u>\$4,762 62</u>

Auditing Department.

CREDIT.

Appropriation	\$1,350 00
Excess and Deficiency account, balance transferred	5 00
	<u>\$1,345 00</u>

DEBIT.

(Expenditures.)

Cash, paid Clarence T. Bruce, salary as auditor	\$800 00
disbursements	1 05
Thomas Groom & Co., pay roll warrants	111 00
Edwin L. Pride & Co., audit of accounts of city treasurer for 1912	350 00
Samuel Ward Co., paper and leather cover	3 45
	<u>\$1,265 50</u>
Treasury Department account, monthly statements	79 50
	<u>\$1,345 00</u>

Treasury Department.

CREDIT.

Appropriation	\$13,700 00
Excess and Deficiency account, balance transferred	98 60
	<u>\$13,601 40</u>

DEBIT.

(Expenditures.)

Cash, paid Joseph S. Pike, salary as city treasurer	\$3,000 00
disbursements	27 95
Charles L. Ellis, salary as deputy collector of taxes	1,500 00
disbursements	27 30
Beulah M. Peirce, first assistant	1,000 00
Louise B. McLaughlin, second assistant	750 00
postage stamps	20 00
	<u>\$6,325 25</u>
Amount carried forward	\$6,325 25

Amount brought forward	\$6,325 25
Florence M. Grow, third assistant	650 00
Marion C. Kendall, fourth assistant	650 00
Winnifred P. Briggs, fifth assistant	650 00
Lilla A. Johnson, clerical services	460 50
May G. Canfield, clerical services	405 99
Ruth G. Butters, clerical services	82 67
Lillian C. Scriven, clerical services	72 00
Amy E. McKinley, clerical services	62 67
Alice M. Coleman, clerical services	61 33
Florence M. Shaw, clerical services	17 98
Beulah C. Church, clerical services	14 66
Gladys F. Taylor, clerical services	13 33
Hannah E. Russell, clerical services	11 33
Helen Hopkins, clerical services	9 33
Mary L. Murray, clerical services	8 00
Louise M. Clevenger, clerical services	8 00
Dorothy Derby, clerical services	7 33
Grace E. Clevenger, clerical services	4 67
Theodore H. Locke, services and collect- ing	65 15
Charles B. Palmer, committing	12 50
Somerville National Bank, clearing house charges	7 73
American Surety Company of New York, bonds of treasurer and deputy collector	224 00
Andrews Paper Co., envelopes	28 94
American Express Co., expressing	65
Boston News Bureau, subscription	12 00
A. W. Babbitt, check register	5 50
Burroughs Adding Machine Co., attention to machine, and rolls of paper	10 45
John F. Biggs & Co., printing tax bills, notices, etc.	210 18
H. A. Cutler, envelope sealer	15 00
Carter's Ink Co., ink	10 66
William E. Copithorne, collecting	2 50
Cambridge Paper Box Co., cloth files	4 00
William E. Cook, ink for protectograph	50
B. F. Cummins Co., repairing receipting perforator	11 40
Dimond Stamp Works, stamps and re- pairing	4 50
J. L. Fairbanks & Co., lithographing checks	80 50
Globe Stamp Works, stamps	5 65
W. A. Greenough & Co., directory	8 00
Thomas Groom & Co., stationery	327 17
F. R. Garrett, lunch	4 42
Gridley Lunch Co., lunch	4 50
Otis A. Handy, blocking paper	11 35
Hill, Smith & Co., envelopes, etc.	1 90
J. C. Hall Co., lithographing checks	50 00
Howard Lowell & Son, carriage hire	159 00
Land Court Office, recording	1 50
G. M. McHugh, copy holder	3 00
Morris, Ireland Safe Co., repairing	5 00
Amount carried forward	\$10,802 69

Amount brought forward	\$10,802 69	
Wesley A. Maynard, printing	38 75	
McGrath & Woodley Co., funded debt book	21 50	
Mihills-Allegretti Co., envelope opener	7 50	
Middlesex Registry of Deeds, recording	12 90	
New England Telephone & Telegraph Co., service	126 85	
National Association of Credit Men, diary	2 00	
National Association of Comptrollers and Accounting Officers, membership dues	10 00	
Remington Typewriter Co., adjusting	6 70	
Somerville Post Office, envelopes and postage	1,594 27	
Thomas F. Sheridan, exchange on stamp affixer	7 50	
Somerville Journal Co., advertising tax sales	599 89	
printing	103 40	
Somerville Publishing Co., printing	201 70	
Sampson & Murdock Co., directory	6 50	
Turner & Co., envelopes	110 60	
Thorpe's Express, expressing	25	
Union Stamp Works, frame	1 75	
Samuel Ward Co., stationery	8 00	
Yale & Towne Mfg. Co., cleaning and insuring time-lock	15 00	
	\$13,677 75	
Central Library account, dictionary	3 15	
	\$13,680 90	
Service Transfer, from Auditing Depart- ment account	79 50	
		\$13,601 40

Assessors' Department.

CREDIT.

Appropriation	\$11,100 00
Excess and Deficiency account, balance transferred	7 20
	\$11,092 80

DEBIT.

(Expenditures.)

Cash, paid George W. Perkins, salary as chairman of the board of assessors	\$166 66
George E. Elliott, salary as chairman of the board of assessors	1,716 39
Nathan H. Reed, assessor	799 92
disbursements	10 00
Winsor L. Snow, assessor	799 92
Harry Van Iderstine, assessor	799 92
J. Robert Fenelon, assessor	638 64
Fred B. Clapp, assistant assessor	250 00
James Wilson, assistant assessor	250 00
Amount carried forward	\$5,431 45

Amount brought forward	\$5,431 45
John F. Stackpole, assistant assessor	250 00
George I. Canfield, assistant assessor	250 00
William H. Wallis, assistant assessor	250 00
William E. Copithorne, assistant assessor, ...	250 00
Abbie D. Southworth, assistant	758 32
disbursements	21 85
Mabel E. Hall, assistant	658 36
carfares	2 50
Bertha M. Boyd, assistant	558 35
Leonard C. Spinney, street clerk	68 00
Theodore H. Locke, street clerk	66 00
Stanley C. Converse, street clerk	66 00
Raymond A. Farr, street clerk	64 00
Myrtie E. Turner, clerical services	209 34
Elva M. Cribby, clerical services	188 00
May T. Frisbee, clerical services	152 00
Lillian M. Hildred, clerical services	148 34
Marion Merrill, clerical services	145 33
Mary L. Murray, clerical services	98 67
Marie A. Mooney, clerical services	47 33
Annie E. Holton, clerical services	46 67
Helen C. French, clerical services	28 00
Alice M. Morey, clerical services	8 00
The Bullard Co., survey map	98
L. E. Clayton, stationery	1 10
J. Everett Cross, stamping pads	1 20
W. A. Greenough & Co., directory	4 00
E. F. Hicks, catering	12 00
Wesley A. Maynard, printing	32 25
New England Telephone & Telegraph Co., service	32 50
E. Wentworth Prescott, clerical work	36 00
Pneumatic Hand Stamp Co., stamps	1 52
Sampson & Murdock Co., directory	6 50
Somerville Enterprise Co., advertising	24 75
Somerville Journal Co., printing	837 85
Somerville Publishing Co., advertising	11 69
Somerville Post Office, postage	40 15
Truman H. Thorpe, book racks	10 50
Samuel Ward Co., books and stationery	248 30
Winter Hill Motor Co., auto hire	25 00

 \$11,092 80

City Clerk's Department.

CREDIT.

Appropriation	\$5,800 00
Vital Statistics account, amount transferred	1,210 00
	\$7,010 00
Election Expenses, City Clerk's Department, amount transferred	215 00
	\$6,795 00
Excess and Deficiency account, balance transferred	1 80
	\$6,793 20

DEBIT.

(Expenditures.)

Cash, paid Frederic W. Cook, salary as city clerk	\$2,700 00
Howard E. Wemyss, assistant city clerk	1,500 00
Clara B. Snow, first assistant	850 00
Edith A. Woodman, assistant	637 54
Agnes M. Fitzmaurice, stenographer and typist	555 16
Marguerite M. Scriven, stenographer and typist	544 16
Myrtie E. Turner, clerical services	43 33
Lillian C. Scriven, clerical services.	31 33
Allen, Doane & Co., badges	1 00
American Multigraph Sales Co., ribbons, ...	4 22
American Express Co., expressing	1 30
The American City, subscription	2 00
T. H. Ball, forms	3 60
Robert Burlen, binding	13 75
Boston Envelope Co., envelopes	4 65
Columbia Graphophone Co., dictaphone	245 00
Cotter & Son, expressing	35
The Carter's Ink Co., ink	22 61
Denison-Pratt Paper Co., paper	10 95
John Donnelly & Sons, posting	57 00
Derby Desk Co., tray	2 25
Glines & Co., expressing	1 10
Gray & Turner, premium on bond	8 00
W. A. Greenough & Co., directory	4 00
Gilman Express Co., expressing	1 05
Thomas Groom & Co., loose-leaf binding	9 50
Hobbs & Warren, mortgage blanks	2 32
International Time Recording Co., plate, ...	1 90
Kee Lox Mfg. Co., ribbon	1 00
Library Bureau, guides	1 06
P. B. Murphy, posters	1 75
New England Telephone & Telegraph Co., service	127 95
Pneumatic Hand Stamp Co., stamp	1 47
Remington Typewriter Co., repairing	4 05
Somerville Post Office, postage	176 94
Somerville Publishing Co., printing	6 00
Somerville Journal Co., printing	72 75
Stone & Forsyth, paper	2 50
Sampson & Murdock Co., directory	6 00
Thorpe's Express, expressing	50
F. S. Webster Co., ribbon	1 00
Whitney & Snow, hardware	65
Samuel Ward Co., stationery	61 51
	\$7,723 20
Service Transfers, from sundry accounts, ...	930 00
	\$6,793 20

Law Department.

CREDIT.

Appropriation	\$2,400 00
Excess and Deficiency account, balance transferred	98 70
	\$2,301 30

DEBIT.

(Expenditures.)

Cash, paid Frank W. Kaan, salary as city solicitor	\$2,100 00	
disbursements	112 30	
James M. Harmon, salary as claim agent, ...	100 00	
Somerville Journal Co., letter heads	6 50	
	\$2,318 80	
Refund, bill paid twice	17 50	
		\$2,301 30

City Messenger's Department.

CREDIT.

Appropriation	\$1,600 00	
Contingent Fund account, amount transferred	1,000 00	
	\$2,600 00	
Excess and Deficiency account, balance transferred	13 71	
		\$2,586 29

DEBIT.

(Expenditures.)

Cash, paid Fred E. Hanley, salary as city messenger	1,200 00	
disbursements	50 00	
Burbank & Ryder Varnish Co., denatured alcohol	6 55	
Buick-Boston Co., touring car	1,050 60	
George R. Bascom, chains and bulb	14 68	
Caverly Auto Co., labor	1 50	
J. H. Edwards Co., horseshoeing	2 75	
B. F. Goodrich Co., cases and tools	38 16	
Gray & Turner, bond	30 00	
Hill-Michie Co., sundries	18 10	
Richard A. Keyes, rent of auto	6 25	
New England Telephone & Telegraph Co., service	31 87	
Howard B. Sawyer Oil Co., oil	3 50	
Somerville Post Office, postage	1 00	
Charles Wharf, repairing harness	4 35	
	\$2,459 31	
Highways Maintenance account, board of horse	251 09	
Water Maintenance account, gasoline	6 98	
	\$2,717 38	
Service Transfer, from Highways Maintenance account	131 09	
		\$2,586 29

Engineering Department.

CREDIT.

Appropriation	\$11,500 00	
Revenue account, amount transferred	50 00	
Amount carried forward		\$11,550 00

Amount brought forward	\$11,550 00
Excess and Deficiency account, balance transferred	22
	\$11,549 78

DEBIT.

(Expenditures.)

Cash, paid Ernest W. Bailey, salary as city engineer	\$3,000 00
Engineer's assistants	7,246 34
Engineer's assistants, carfares	185 88
American Express Co., expressing	40
E. C. Andrews Co., part cost auto top and repairs	30 00
Town of Arlington, one-half cost engineering services Alewife Brook Bridge	50 00
D. J. Bennett, repairing automobile top	1 25
Boston Burial Case Co., stakes	18 52
Clinton E. Bray, repairs to motor cycle	22 00
The Bullard Co., N. E. survey	98
Thomas D. Bennett, automobile oil	75
L. E. Clayton, cotton cloth	2 80
Neils A. Dolleris & Son Co., Inc., batteries and tank	9 25
Dimond Union Stamp Works, type and holder	4 95
Eyelet Tool Co., punching pins	1 25
Frost & Adams Co., drawing supplies	51 46
The Fisk Rubber Co., bolts, etc.	11 68
Thomas Groom & Co., stationery	32 22
Glines Express Co., expressing	60
E. M. Green, labor and blacksmithing	11 85
Harvard Vulcanizing Co., repairing tubes, ...	116 12
Hillman Auto Supply Mfg. Co., supplies, ...	2 00
The Hill-Michie Co., presto re-charge	1 50
Eugene H. Jones, photographs	22 50
Kee Lox Mfg. Co., paper	5 67
Knox Automobile Co., supplies	139 60
Library Bureau, cards	2 60
Ledder & Probst, ink	66
B. L. Makepeace, blue prints	96 98
G. M. McHugh, copy holder	3 00
Dr. Frank L. Morse, automobile tire	24 60
New England Telephone & Telegraph Co., service	89 98
Pneumatic Hand Stamp Co., ink	45
Stewart-Warner Speedometer Corp., speedometer, etc.	29 25
Somerville Post Office, postage	13 25
The Underhill Hardware Co., repairing automobile	117 70
Underhill Hardware Co., hardware	80
A. J. Wilkinson & Co., hardware	60
Whitney & Snow, hardware	10 68
Samuel Ward Co., blank books	18 20
	\$11,378 32
Amount carried forward	
	\$11,378 32

Amount brought forward	\$11,378 32	
Highways Maintenance account, stone bound	50	
Water Maintenance account, gasoline	178 53	
Water Maintenance account, proportion of expenses of Public Works Committee	10 00	
	\$11,567 35	
Service Transfers, from sundry accounts	17 57	
		\$11,549 78

Public Buildings Department, Commissioner of Public Buildings.

CREDIT.

Appropriation	\$4,500 00	
Maintenance Water Buildings account, amount transferred	27 52	
	\$4,527 52	
Maintenance School Buildings account, amount transferred	50 00	
	\$4,477 52	
Excess and Deficiency account, balance transferred	7 60	
	\$4,469 92	

DEBIT.

(Expenditures.)

Cash, paid Walter T. Littlefield, salary as commissioner of public buildings	\$2,250 00	
Florence Ham, assistant to commissioner of public buildings	686 54	
Duncan C. Greene, inspector of plumbing, Evelyn Kelley, clerical services	1,200 00	
Estate of A. R. Andrews, typewriter supplies	25 33	
J. E. Cross, stamping pads	8 90	
Thomas Groom & Co., account books, etc.	1 20	
W. A. Greenough & Co., directory	18 55	
Kee Lox Mfg. Co., paper	4 00	
B. L. Makepeace, drawing materials	2 34	
New England Telephone & Telegraph Co., service	11 84	
Renner's Express, expressing	108 54	
Sanborn Map Co., correcting map	25	
Somerville Journal Co., printing	20 50	
S. M. Spencer Mfg. Co., stamp, pad, etc., Somerville Post Office, postage	79 15	
Samuel Ward Co., stationery	3 11	
Yawman & Erbe Mfg. Co., cards and printing	1 50	
	9 94	
	38 23	
		\$4,469 92

Public Buildings Department, Maintenance Municipal Buildings.

CREDIT.

Appropriation		\$6,150 00
Transferred from the following accounts:—		
Maintenance Fire Buildings	\$400 00	
Maintenance School Buildings	100 00	
		500 00
		\$5,650 00
Excess and Deficiency account, balance transferred		76 83
		\$5,573 17

DEBIT.

(Expenditures.)

Cash, paid janitors' salaries	\$2,277 93
Labor	117 00
James H. Chase, pension	66 43
George A. Ayer, plumbing	11 83
F. C. Ayer, lumber	50 98
Art Metal Construction Co., steel shelving	55 00
James Bartley, soap	19 93
Cambridge Gas Light Co., gas	10 56
Cudahy Packing Co., polish	7 50
Cambridge Ice Co., ice	55 36
Jackson Caldwell & Co., furniture	222 01
Cotter & Sons, expressing	15
Carpenter-Morton Co., paints	12 71
L. E. Clayton, cheese cloth	50
Davenport-Brown Co., wood	1 25
Edison Electric Illuminating Co., lighting	890 82
J. H. Edwards, irons	5 60
Emerson Mfg. Co., hose for vacuum cleaner	12 55
Fred W. Farrar, repairing clocks	15 50
Fuller & Nary, repairing and making lever to vault	2 00
F. C. Fuller & Co., hardware	3 50
Benjamin F. Freeman, prints	15 00
Grimmons, Bailey-Weston Co., set chair glides	84
Joseph E. Greene Co., desk lamp	2 70
F. A. Hyde & Co., safe	75 00
S. D. Hicks & Son, repairing roofs	300 00
Wm. Hall & Co., door check	73
J. J. Hurley & Co., repairing boiler	10 46
George T. Johnson Co., toilet paper	11 50
Edwin C. Lewis, fixtures	35 93
Lewis Electrical Supply Co., supplies	2 98
Martin & Clark, roofing	7 00
B. L. Makepeace, drawing paper	2 95
George W. Manning, labor on flag-pole	5 50
Charles F. Mills, carpentering	4 00
Arthur C. McGilvray & Co., electric work	3 14
Amount carried forward	\$4,316 84

Amount brought forward	\$4,316 84	
J. Edward L. McLean, laying oak floor	60 00	
Martin & Wood, keys	2 35	
C. W. H. Moulton Co., step ladder	2 25	
T. F. McGann & Sons Co., re-finishing fixtures	11 40	
McKenney & Waterbury Co., electrical supplies	161 94	
New England Towel Supply Co., towels	123 00	
Newton & Dunbar, electrical shades, etc., ...	18 78	
Perry & Shea, medical supplies for emer- gency chest	3 90	
Pittsburg Plate Glass Co., glass	7 43	
Pettingell-Andrews Co., lighting fixtures, ...	42 68	
A. W. Phillips, mason work on boilers	3 75	
W. E. Plumer & Co., hardware	2 35	
George L. Robinson, painting	145 50	
Renner's Express, service	55	
E. S. Sparrow & Co., hardware	7 15	
Underhill Hardware Co., hardware	5 01	
Henry A. Wheeler & Co., awning, etc.	5 95	
Wellington-Wild Coal Co., fuel	526 19	
George W. Wood, soap, matches, etc.	11 00	
Asahel Wheeler Co., paint remover, etc.	15 81	
Western Electric Co., supplies	46 35	
Whitney & Snow, paint remover	5 00	
Yawman & Erbe Mfg. Co., filing cabinet	44 75	
	\$5,569 93	
Water Maintenance account, cleaning ser- vice pipe, stock, etc.	3 24	
		\$5,573 17

Municipal Buildings, Vaults.

CREDIT.

Balance from 1912	\$21 93
Building Public Buildings account, amount transferred	21 93

Certification of Notes and Bonds.

CREDIT.

Appropriation	\$450 00
Contingent Fund account, balance transferred	187 50
	\$637 50

DEBIT.

(Expenditures.)

Cash, paid Old Colony Trust Company, preparation and certification of notes and bonds	\$637 50
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Registration of City Laborers.

CREDIT.

Appropriation	\$450 00
Excess and Deficiency account, balance transferred	119 30
	\$330 70

DEBIT.

(Expenditures.)

Cash, paid Howard E. Wemyss, salary as registration clerk	\$207 50	
Thomas Groom & Co., account book	5 50	
Pneumatic Hand Stamp Co., numbering machine, stamps, etc.	13 70	
Somerville Journal Co., printing	42 60	
Somerville Publishing Co., printing	14 25	
Somerville Post Office, postage	17 00	
Samuel Ward Co., books and supplies	20 70	
Yawman & Erbe Mfg. Co., cards	9 45	
		<u>\$330 70</u>

Election Expenses, City Clerk.

CREDIT.

Appropriation		\$1,400 00
Transferred from the following accounts:—		
Vital Statistics	\$202 28	
Registrars of Voters	85 00	
City Clerk's Department	215 00	
		<u>502 28</u>
		<u>\$1,902 28</u>
Excess and Deficiency account, balance transferred		3 72
		<u>\$1,898 56</u>

DEBIT.

(Expenditures.)

Cash, paid American Express Co., express- ing	\$ 20
Allen, Doane & Co., type	1 25
Robert Burlen, binding	1 50
Boston Envelope Co., envelopes	7 77
Boulevard Auto Co., car hire	279 75
Carter's Ink Co., ink	1 80
Cotter & Gould, pencils	12 50
L. E. Clayton, tape	90
Thomas J. Callahan & Co., printing	15 00
John Donnelly & Sons, posting	20 00
Agnes M. Fitzmaurice, addressing	24 92
Gridley Lunch Co., lunch	4 25
Glines Express Co., expressing	25
The Heliotype Co., maps	37 00
John H. Kelley, repairing boxes	73 50
Oriental Tea Co., coffee	1 59
Pneumatic Hand Stamp Co., stamps	3 63
Somerville Post Office, postage	289 25
Shawmut Press, printing labels	4 00
Marguerite M. Scriven, addressing	19 51
Somerville Enterprise Publishing Co., ad- vertising	79 63
Somerville Journal Co., printing	496 34
Somerville Publishing Co., printing	188 40
Samuel Ward Co., stationery	25 12
Amount carried forward	<u>\$1,588 06</u>

Amount brought forward	\$1,588 06	
Whitney & Snow, hardware	5 50	
	\$1,593 56	
City Clerk's Department account, clerical assistance	305 00	
		<u>\$1,898 56</u>

Election Expenses, Registrars of Voters.

CREDIT.

Appropriation	\$2,400 00	
Election Expenses, City Clerk's Department account, amount transferred	85 00	
	\$2,315 00	
Excess and Deficiency account, balance transferred	1 56	
		<u>\$2,313 44</u>

DEBIT.

(Expenditures.)

Cash, paid Charles P. Lincoln, salary as registrar	\$200 00	
Frederic W. Cook, salary as registrar	200 00	
Douglass B. Foster, salary as registrar	200 00	
Edwin D. Sibley, salary as registrar	200 00	
John W. Hamilton, temporary registrar	15 00	
Howard E. Wemyss, clerical services	51 00	
Fred E. Warren, clerical services	36 00	
Clinton E. Bray, clerical services	42 00	
John H. Kelley, clerical services	36 00	
Agnes M. Fitzmaurice, clerical services	1 50	
Allen, Doane & Co., repairing daters, etc.	8 00	
Robert Burlen, binding	4 50	
Boulevard Auto Co., car hire	16 50	
John Donnelly & Sons, posting	35 50	
Gridley Lunch Co., lunch	24 00	
Glines & Co., expressing	40	
Thomas Groom & Co., books	30 00	
Fred E. Hanley, witness fee and travel	6 40	
Richard A. Keyes, stenographer	5 00	
Library Bureau, cards	5 25	
Pneumatic Hand Stamp Co., pads	1 00	
Somerville Post Office, postage	31 44	
Somerville Journal Co., printing	434 12	
Somerville Publishing Co., printing	50 88	
Somerville Enterprise Publishing Co., advertising	38 12	
Samuel Ward Co., books and stationery	23 50	
	\$1,696 11	
City Clerk's Department account, clerical assistance	617 33	
		<u>\$2,313 44</u>

Election Expenses, Pay of Election Officers.

CREDIT.

Appropriation	\$3,248 00
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DEBIT.

(Expenditures.)

Cash, paid election officers	<u>\$3,248 00</u>
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Election Expenses, Polling Places.

(Public Buildings Department.)

CREDIT.

Appropriation	\$700 00
Excess and Deficiency account, balance transferred	12 11

\$687 89

DEBIT.

(Expenditures.)

Cash, paid for labor	\$53 00
F. C. Ayer, lumber	47
C. Bowen, moving voting booths	100 00
Edison Electric Illuminating Co., lighting	41 45
Philip Eberle, rent of hall	62 50
Percy A. Hall, rent of hall	30 00
T. E. Littlefield, lumber	7 72
G. F. McKenna & Son, teaming	305 50
Arthur G. Pearson, rent of hall	80 00
W. E. Plumer & Co., hardware	3 18
E. S. Sparrow & Co., hardware	3 72
S. M. Spencer Mfg. Co., brass checks	35

\$687 89**PROTECTION OF LIFE AND PROPERTY.****Police.**

CREDIT.

Appropriation	\$100,000 00
Municipal Loan, amount appropriated	4,000 00

\$104,000 00

Excess and Deficiency account, balance transferred	249 03
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\$103,750 97

DEBIT.

(Expenditures.)

Cash, paid Charles A. Kendall, chief	\$2,100 00
disbursements	66 73
Robert R. Perry, captain	1,575 82
Dennis Kelley, lieutenant	1,415 82
Eugene A. Carter, lieutenant	1,415 82
Charles E. Woodman, lieutenant	1,400 32
Edward McGarr, sergeant	1,260 68
George H. Carleton, sergeant	1,260 68
James M. Harmon, sergeant	1,260 68
John A. Ray, sergeant	1,260 68

Amount carried forward	<u>\$13,017 23</u>
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Amount brought forward	\$13,017 23
Thomas Damery, inspector	1,200 68
Michael T. Kennedy, inspector	1,203 83
Patrolmen, salaries and extra duties	76,968 43
Drivers	3,011 50
Sundry persons, special patrolmen	446 13
Retired, half pay:—	
Melville C. Parkhurst	1,000 00
George W. Bean	547 50
Ira S. Carleton	547 50
John E. Fuller	547 50
Herbert Hilton	574 88
James J. Pollard	547 50
Albion L. Staples	547 50
Minnie F. Woodland, matron	135 00
Katherine Wood, substitute matron	22 50
Auto List Publishing Co., auto lists	20 00
American Express Co., expressing	3 37
American Towel Supply Co., towels	55 20
American Storage Battery Co., supplies	2 55
S. H. Abbott, supplies	3 30
Boulevard Auto Co., auto hire	38 50
Thomas D. Bennett, supplies	2 50
James I. Brooks, bay horse	300 00
H. Barrett, Jr., photographs	4 00
Charles E. Berry, harness and wagon supplies	70 55
D. J. Bennett, stable supplies and repairs, ...	6 00
Bostonian Laundry Co., washing	28 41
H. Barrett, photographs	30 00
Boston Tire & Rubber Co., repairs	27 18
Eugene A. Carter, disbursements	64 08
Cotter & Son, expressing	80
George H. Carleton, disbursements	3 00
John L. Cameron, motor cycle suit and license	8 50
George E. Damon Co., stationery	12 96
Thomas Damery, disbursements	91 98
Neils A. Dolleris & Son Co., batteries charged, etc.	1 15
Davenport-Brown Co., lumber	24
D. Evans & Co., buttons	56 00
Eastern Drug Co., auto supplies	6 60
Edward Edwards, supplies	2 30
J. L. Fairbanks & Co., stationery sup- plies	31 00
Benjamin F. Freeman, photographs	16 10
Ernst Flentje, recoil preventer for auto	80 00
Fresh Pond Ice Co., ice	10 82
Frank H. Graves, committing prisoners	19 91
Glines Express Co., expressing	1 15
W. A. Greenough, directories	12 00
Thomas Groom & Co., books and sta- tionery	59 35
Gilman Express Co., expressing	1 20
George N. Holden, motor cycle repairs, etc.	30 90
Amount carried forward	<u>\$101,419 28</u>

Amount brought forward	\$101,419 28
The Hill-Michie Co., rental and presto recharge	43 25
Albert C. Hawes, committing prisoners	4 20
Hobbs & Warren, books	10 00
James M. Harmon, motor cycle suit and puttees	6 60
Hildreth & Freeman, motor cycle repairs, ...	32 13
Iver Johnson Sporting Goods Co., sup- plies	47 81
Jones Speedometer Co., supplies	6 50
Charles S. Johnston, committing prison- ers	2 80
Michael T. Kennedy, disbursements and committing prisoners	64 98
Little, Brown & Co., law books	6 75
M. Linsky & Bros., trimmings and wagon coat	47 36
Lord & Webster, hay	62 52
E. Linegar, supplies and labor	8 00
R. S. Lombard, oats	5 10
Mary McEachern, meals for prisoners	36 25
Martin & Wood, police box keys	1 50
J. J. Manning, hack hire	3 00
New England Telephone and Telegraph Co., service	233 67
New York Lubricating Co., oil	6 50
Fulton O'Brien, oats	4 30
A. H. Proctor, oats	7 55
Proctor Bros. Grain Co., oats	29 45
Phelps Bros., hay and straw	14 70
Perry's Prescription Pharmacy, pre- scriptions	1 10
Ira L. Roberts, horseshoeing	56 50
W. W. Reid Mfg. Co., metal polish	1 00
A. P. Rockwood, carriage hire	10 00
John B. Ruier, supplies and repairs	7 90
W. H. Rinn, meals	3 10
Standard Auto Supply Co., supplies	3 73
Sampson & Murdock Co., directory	6 50
Sprague-Hathaway Co., photographs	1 90
Stone & Forsyth, drinking cups	7 00
Charles R. Simpson, D. V. S., medical advice	4 00
Somerville Journal Co., printing	78 00
Standard Tire & Rubber Co., supplies	405 75
Daniel G. Simons, committing prisoners, ...	6 90
S. Slater & Sons, Inc., police cloth	428 65
R. M. Sturtevant, supplies	19 54
The Frank Shepard Co., law book	4 00
Somerville Post Office, postage	15 03
E. Teel & Co., wagon repairs	36 50
Nathan Tufts & Sons, oats	4 30
Underwood Typewriter Co., supplies and repairs	3 30
M. L. Vinal, supplies	55
Whitney & Snow, hardware	9 75
The White Co., auto supplies	90 13
Amount carried forward	\$103,309 33

Amount brought forward	\$103,309 33	
William H. Winship, saddle cloth and head gear	11 75	
Samuel C. Wilson Co., auto supplies	7 50	
Charles E. Wilson, committing prisoners, ...	2 10	
Western Oil Co., oil	3 93	
Wolverine Lubricant Co., supplies	3 95	
Youlden, Smith & Hopkins, moving safe	13 50	
		\$103,352 06
Fire Department account, one-half expense Public Safety Committee, badges, and gasoline	118 60	
Highways Maintenance account, board of horse	240 00	
horseshoeing	62 00	
City Clerk's Department account, type-writer ribbons	2 58	
Water Maintenance account, gasoline	16 96	
		\$103,792 20
Service Transfer, from Contagious Hospital account	41 23	
		<u>\$103,750 97</u>

Public Buildings Department, Maintenance Police Building.

CREDIT.

Appropriation	\$3,800 00	
Transferred to the following accounts:—		
Maintenance Highway Buildings	\$300 00	
Maintenance School Buildings	350 00	
		650 00
		\$3,150 00
Excess and Deficiency account, balance transferred		31 81
		\$3,118 19

DEBIT.

(Expenditures.)

Cash, paid janitors' salaries	\$1,167 64
Labor	10 00
Cambridge Gas Light Co., gas	208 56
Jackson Caldwell & Co., shade	35
James Duncan, reseating chairs	2 50
Edison Electric Illuminating Co., lighting	402 21
Fred W. Farrar, repairing clock	3 00
Gurney Heater Mfg. Co., grate	1 00
Glines & Co., expressing	25
Gilman Express Co., expressing	25
William S. Howe, coal hods	70
S. D. Hicks & Co., metal work and roofing	280 00
J. J. Hurley & Co., steam fitting	90 79
Leavis & Doherty, repairing drain	34 58
Walter T. March, upholstering	7 95
Amount carried forward , ...	\$2,209 78

Amount brought forward	\$2,209 78
Charles F. Mills, carpentering	4 00
P. W. Merrill Co., screens	2 50
Pittsburg Plate Glass Co., glass	3 30
W. E. Plumer & Co., hardware	3 23
A. W. Phillips, mason work on boilers	31 50
George L. Robinson, painting	49 50
E. S. Sparrow & Co., hardware	1 75
John Welch, mason work	162 60
Whitney & Snow, hardware	28 86
Asahel Wheeler Co., paint	7 15
Wellington-Wild Coal Co., fuel	514 57
West Disinfecting Co., disinfectant	15 00
H. W. Waite & Co., dust layer	6 26
John K. Wells, sheet metal work	34 94
Yawman & Erbe Mfg. Co., filing cabinet, ...	43 25

\$3,118 19

Police Department, Additional Equipment.

CREDIT.

Balance from 1912	\$285 00
Building Public Buildings account, amount transferred	285 00

New Cells, Police Station.

CREDIT.

Appropriation, from Funded Debt, 1913	\$5,000 00
Balance to credit of account, 1914	4,046 81

\$953 19

DEBIT.

(Expenditures.)

Cash, paid William S. Howe, plumbing	\$1 95
J. E. Locatelli Co., mason work	674 40
P. J. Mooney, plumbing	276 84

\$953 19

Police Signal System.

CREDIT.

Balance from 1912	\$7,842 26
Building Public Buildings account, amount transferred	92 26

\$7,750 00

DEBIT.

(Expenditures.)

Cash, paid Gamewell Fire Alarm Telegraph Co., signal apparatus	\$7,750 00
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Fire Department.

CREDIT.

Appropriation	\$99,000 00
Municipal Loan, amount appropriated	10,000 00

\$109,000 00

Excess and Deficiency account, balance transferred	30 51
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\$108,969 49

DEBIT.

(Expenditures.)

Cash, paid Sewall M. Rich, salary as chief engineer	\$2,000 00
disbursements	129 49
Edward W. Ring, assistant engineer	1,500 00
Joseph A. Cribby, assistant engineer	1,450 00
Permanent firemen and substitutes	81,762 56
Callmen:—	
Engine No. 4	1,192 68
Engine No. 6	458 31
Hose Co. No. 2	145 88
Hose Co. No. 3	444 04
Hose Co. No. 5	49 98
Hose Co. No. 7	256 16
Ladder Co. No. 1	1,284 99
Ladder Co. No. 2	1,431 66
Ladder Co. No. 3	1,340 19
Pensions:—	
James R. Hopkins	1,200 00
Benjamin H. Pond	235 87
Arthur M. Gilman	157 69
Charles H. Bridges	100 00
Daniel R. Spike	100 00
John E. Hill	100 00
Thomas W. Joy	100 00
William J. Blaisdell	100 00
I. B. Walker, horseshoeing	156 74
repairing	75
George W. Ladd, hoseshoeing	128 00
Everett E. Olney, horseshoeing	151 75
Ira L. Roberts, horseshoeing	53 10
J. H. Edwards, horseshoeing	315 80
repairing	9 75
Harry Tobin, horseshoeing	38 05
J. H. Thompson, horseshoeing	59 20
repairing	4 50
John B. Rufer, horseshoeing	324 85
repairing	412 10
wrench and ladder dogs	11 85
American La France Fire Engine Co., valves, springs and grates	85 30
Ame & Co., horse food	29 50
F. C. Ayer, lumber	7 95
American Express Co., expressing	132 80
George A. Ayer, brooms	35 75
Andrews Paper Co., toilet paper	5 75
Auto Wind Shield Co., repairs	3 50
Charles A. Blethen, repairs	3 90
James I. Brooks, horses	425 00
Brown's Express, expressing	25
D. J. Bennett, repairs	14 90
Boston Woven Hose & Rubber Co., hose	1,278 52
Bostonian Laundry Co., laundering	253 25
Charles E. Berry, repairs	23 90
Boston Coupling Co., repairs	18 75
A. & E. Burton Co., brushes and dusters	32 00
Blount & Lovell, gears	61 20

Amount carried forward \$99,618 17

Amount brought forward	\$99,618 17
H. W. Bursaw, kerosene	9 60
F. W. Barry, Beale & Co., stationery	3 70
James Bartley, flaxseed	1 00
Allen H. Blake, M. D., first aid	2 00
Boston & Maine Railroad, freight	12 00
F. E. Cheney Co., supplies	46 98
Esau Cooper, horses	700 00
Cotter & Son, expressing	1 00
Chandler & Farquhar Co., supplies	133 89
Crosby Steam Gage & Valve Co., repairs	1 75
Cambridge Ice Co., ice	36 44
Commonwealth of Massachusetts, mops	26 00
Cadillac Automobile Co., labor	99
George W. Cutter, medicine	10 80
Commonwealth Oil Co., soap	5 76
Cornelius Callahan Co., repairs	12 20
Cambridge Iron Works, repairs	5 89
Davenport-Brown Co., lumber	26 08
Julian D'Este Co., brass, and repairs	23 29
Dodge Motor Vehicle Co., grease	2 00
Dimond Rubber Co., replacing tires	11 68
Charles A. Draper, expenses	40 00
Eastern Drug Co., acid	39 86
Fellows & Co., repairs	7 30
Firestone Tire & Rubber Co., tire	66 59
F. E. Fitts Mfg. & Supply Co., waste	61 06
Fresh Pond Ice Co., horse hire	295 84
Gray & Davis, repairs	1 90
W. A. Greenough & Co., directories	16 00
George E. Grover, medicines	4 20
Glines & Co., expressing	26 23
Gilman Express Co., expressing	3 40
Thomas J. Gile, kerosene	90 29
Gulf Refining Co., gasoline	277 50
Arial W. George, Roentgen examination	25 00
General Welding & Equipment Co., repairs	6 75
Henry S. Harris & Son, sharpening	1 00
Hill-Mitchie Co., supplies	317 32
Harral Soap Co., powder	14 94
Hillman Co., glass	10 00
S. D. Hicks & Son, repairs	10 50
E. H. Holmes, trucking	2 50
Henry W. Kruschwitz, vulcanizer	4 00
J. A. Kiley, repairs	157 00
E. S. Kearney Co., sawdust	3 95
O. F. Kress & Son, repairs	19 56
R. S. Lombard, grain	138 67
W. T. Lane & Brother, coal bags	36 75
Lord & Webster, hay and straw	2,778 07
Dr. J. G. Lesure, medicine	36 00
Levy Brothers, sponges	54 15
Larkin Mfg. Co., hose clamps and nozzles	47 00
Martin & Wood, sharpening	1 50
Mathieson Alkali Works, soda	111 79
D. McDonald, whips, and repairs	54 25
Mitchell Mfg. Co., badges	25 00
Andrew J. Morse & Son, repairs	3 25
Amount carried forward	\$105,480 34

Amount brought forward	\$105,480 34
Morgan-Bond Co., supplies	59 75
Massachusetts Metal Polish Co., polish	59 00
C. W. H. Moulton Co., shavings	32 00
Mystic Rubber Co., repairs	11 05
A. S. Morss Co., supplies	4 19
George W. Norton, soap	72 75
New England Telephone and Telegraph Co., service	141 97
Fulton O'Brien, grain	138 24
H. H. Osgood & Co., squilgees	10 00
A. H. Proctor & Co., grain	338 16
Proctor Brothers Grain Co., grain	1,157 54
Presto-O-Lite Co., tanks	6 00
Phelps Bros., hay and straw	509 99
Penn Metal Co., trays	11 76
Palmer Vulcanizing Co., repairs	1 75
Pope-Hartford Co., gears	99 70
Penniman & James, repairs	18 00
W. E. Plumer & Co., batteries	3 70
Henry D. Padelford, medicines	4 20
Joseph Palmer, repairs	20 90
Postal Telegraph Cable Co., message	50
Russell & Co., supplies	35
Remington Typewriter Co., supplies	2 80
Reporter Press, printing	17 00
Roland L. Smith, search lights	15 00
Frederick G. Smith, M. D., consultation	10 00
Shepard Norwell Co., blankets	84 34
Somerville Post Office, postage	10 03
Charles R. Simpson, V. S., veterinary ser- vices	74 10
Standard Oil Co., gasoline and naphtha	72 96
E. S. Sparrow & Co., rope and cord	11 82
Sanborn Map Co., map	65 00
Standard Range & Stove Co., gasket	60
Charles T. Sullivan, repairs	4 45
Standard Tire & Rubber Co., solid tire	61 60
P. Sutherland & Co., oil	3 70
Somerville Iron Foundry, castings	3 66
Standard Extinguisher Co., repairs and nozzles	31 53
Scovill Mfg. Co., buttons	20 25
Sterling Machine Co., washers	86
Standard Thermometer Co., pump	24 00
Erwin F. Schroeder, veterinary services	51 75
Somerville Journal Co., stationery	1 75
United States Tire Co., supplies	231 44
Underhill Hardware Co., supplies	21 55
Vacuum Oil Co., oil	39 08
Winter Hill Ice Co., ice	44 50
B. A. Wilcox, food	22 60
West Disinfecting Co., disinfectant	108 30
R. G. Whittet, sheets and slips	72 50
L. A. Wright, repairs	11 35
Samuel Ward Co., books	10 50
Western Electric Co., fuses	1 85
Whitney & Snow, paint, etc.	23 27
Amount carried forward	\$109,335 92

Amount brought forward	\$109,335 92
G. H. Worcester & Co., chamois . . .	20 75
William J. Wiley, menders	50
Fred H. Wentworth, insignia	2 75
Young & Small, supplies	2 00

	\$109,361 92
Service Transfers, from sundry accounts .	392 43

\$108,969 49

Public Buildings Department, Maintenance Fire Buildings.

CREDIT.

Appropriation	\$4,800 00
Amounts transferred from the following accounts:—	
Maintenance Central Library	\$250 00
Maintenance Municipal Buildings . . .	400 00
	<u>650 00</u>

	\$5,450 00
Excess and Deficiency account, balance transferred . . .	72 34
	<u>\$5,377 66</u>

DEBIT.

(Expenditures.)

Cash, paid for labor	\$142 75
George A. Ayer, plumbing	11 60
John H. Adcock, plumbing	7 64
F. C. Ayer, lumber	81 92
American Express Co., service	20
James W. Benjamin, carpentering . . .	72 00
M. J. Bowdren, gardening	11 25
Charlestown Gas & Electric Co., gas . .	33 44
Cambridge Gas Light Co., gas	44 72
Cotter & Son, teaming	35
J. H. Carleton, section for grate . . .	14 00
Jackson Caldwell & Co., furniture . . .	172 18
C. W. Cahalan, plumbing	10 47
Carlisle-Ayer Co., lumber	7 97
Edison Electric Illuminating Co., light- ing	1,339 55
Fred W. Farrar, clock oil	75
F. C. Fuller & Co., window cord	75
J. J. Fisher, plumbing	7 55
Gilman Express Co., service	25
Glines Express Co., service	2 35
S. D. Hicks & Son, copper boiler	57 08
Charles H. M. Hunnewell, plumbing . . .	17 81
Hemeon Bros., building fence	40 24
T. E. Littlefield, lumber	72 38
Charles F. Mills, carpentering	120 00
George W. Manning, labor on flag poles .	46 75
William J. McCarthy Co., stone dust . .	2 50
G. F. McKenna & Son, teaming	4 00
James W. O'Neil, plumbing	70 60
A. W. Phillips, mason work	276 40

Amount carried forward \$2,669 45

Amount brought forward	\$2,669 45
Pierce, Butler & Pierce Mfg. Co., supplies	39 70
Pittsburg Plate Glass Co., glass	12 53
W. E. Plumer & Co., hardware	8 64
F. S. Payne Co., repairing	10 60
Roberts Iron Works Co., tube caps	1 00
John B. Rufer, bolts, etc.	9 85
George L. Robinson, painting	29 40
E. S. Sparrow & Co., hardware	58 33
City of Somerville, sidewalk assessments, ...	130 96
Underhill Hardware Co., rakes	1 00
Henry A. Wheeler & Co., awning re-covered	23 50
L. A. Wright, bolts	7 00
William J. Wiley, bolts	12
Western Electric Co., supplies	22 09
Wellington-Wild Coal Co., fuel	2,201 24
Frederick B. Witherly, castings	4 05
Walworth Mfg. Co., piping	5 29
John M. Woods & Co., lumber	142 91
	\$5,377 66

Fire Department, Additional Apparatus.

CREDIT.

Balance from 1912	\$6,000 00
Municipal Loan, amount appropriated	20,000 00
	\$26,000 00
Balance to credit of account, 1914	20,200 00
	\$5,800 00

DEBIT.

(Expenditures.)

Cash, paid American-La France Fire Engine Co., combination chemical and hose motor car	\$5,800 00
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Militia.

CREDIT.

Appropriation	\$500 00
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DEBIT.

(Expenditures.)

Cash, paid Company K. Eighth Regiment, rifle range expenses	\$250 00
Company M, Eighth Regiment, rifle range expenses	250 00
	\$500 00

Weights and Measures Department.

CREDIT.

Appropriation	\$2,500 00
Contingent Fund account, balance transferred	33 53
	\$2,533 53

APPENDIX TO TREASURER AND COLLECTOR'S REPORT.

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DEBIT.

(Expenditures.)

Cash, paid John H. Dusseault, salary as sealer of weights and measures . . .	\$1,100 00	
disbursements	442 75	
Benjamin S. Abbott, assistant sealer of weights and measures	900 00	
A. W. Brownell, printing	13 50	
Joseph Breck & Sons, ice scales, tongs, etc.	4 15	
John Chatillon & Sons, balance and postage	1 75	
Dennison Mfg. Co., seals	3 40	
Fairbanks Co., lead wire	1 28	
W. A. Greenough & Co., directory	4 00	
W. & L. E. Gurley, seal and dies	22 37	
Gilman Express Co., expressing	15	
Wesley A. Maynard, advertising	4 00	
New England Telephone & Telegraph Co., service	25 68	
Somerville Journal Co., advertising	6 50	
Somerville Enterprise Co., advertising	4 00	
		<u>\$2,533 53</u>

Electrical Department.

CREDIT.

Appropriation	\$10,000 00
Excess and Deficiency account, balance transferred	593 27.
	<u>\$9,406 73</u>

DEBIT.

(Expenditures.)

Cash, paid Walter I. Fuller, salary as commissioner of electric lines and lights . . .	\$1,500 00
disbursements	14 08
Laborers	4,306 00
American Dyewood Co., vitriol	11 62
American Telephone & Telegraph Co., filing case	15 00
American Steel & Wire Co., wire	104 64
Boston & Maine Railroad, freight	6 60
F. W. Barry, Beale & Co., stationery	7 35
A. E. Burton Co., dusters, etc.	8 20
Harold L. Bond Co., coupling	49 50
Barbour, Stockwell Co., bases and posts	97 50
J. A. & W. Bird & Co., sal-ammoniac	7 50
Boulevard Auto Co., car hire	8 00
Chadwick-Boston Lead Co., pipe, etc	3 08
S. H. Couch Co., coils, etc.	4 36
Commercial Brewing Co., fire alarm whistle	30 00
Chandler & Farquhar Co., supplies	42 39
Coogan's Express, expressing	2 90
Clifton Mfg. Co., tape	7 00
Cotter & Son, expressing	60
Crawford House, lunch	7 00
Amount carried forward	<u>\$6,233 32</u>

Amount brought forward	\$6,233 32	
Davis Square Auto Co., gasoline	3 30	
Davenport-Brown Co., lumber	24 00	
Gilman Express Co., expressing	65	
Glines & Co., expressing	11 35	
Gamewell Fire Alarm Telegraph Co., supplies	2,178 66	
Hill-Michie Co., gasoline	40 19	
Jim Hodder, crash	2 78	
Iver Johnson Sporting Goods Co., inner tube, etc.	13 40	
Jenny Mfg. Co., oil	4 00	
T. E. Littlefield, sheathing	2 00	
George W. Ladd, iron	25	
G. B. Lawrence Co., slate	6 25	
R. W. LeBaron, supplies	119 37	
D. McDonald, collar pad	65	
New York Insulated Wire Co., wire	9 96	
George W. Norton, soap	2 00	
New England Telephone & Telegraph Co., service	73 36	
Pettingell-Andrews Co., magneto	8 27	
Charles E. Perry Co., register paper	7 21	
W. E. Plumer & Co., tools and hardware, ...	53 53	
John A. Roebling Sons & Co., magnet wire	75	
John B. Rufer, blacksmithing	1 15	
Renner's Express, expressing	15	
Stuart-Howland Co., gongs, etc.	15 20	
Studebaker Corporation, of America, auto repairs	87 80	
Somerville Journal Co., letter heads	5 00	
Standard Plate Glass Co., glass	9 00	
Stewart, Warner Speedometer Corpora- tion, swivel joint	4 00	
Sullivan Bros., expressing	75	
Thorpe's Express, expressing	2 50	
Underhill Hardware Co., supplies	90	
United States Tire Co., tires, etc.	48 54	
Western Electric Co., supplies	160 96	
	\$9,131 20	
Fire Department account, horse feed, etc.	273 83	
Water Maintenance account, gasoline	1 70	
		\$9,406 73

Electrical Department, Underground Construction.

CREDIT.

Balance from 1912	\$1,341 35
Appropriations, from Funded Debt, 1913	3,000 00
	\$4,341 35
Balance to credit of account, 1914	2,007 82
	\$2,333 53

DEBIT.

(Expenditures.)

Cash, paid laborers	\$939 00	
National Insulator Co., compound	1 47	
New York Insulated Wire Co., supplies, ...	131 34	
Standard Underground Cable Co., cable	1,261 72	
		<u>\$2,333 53</u>

FORESTRY.**Gypsy and Brown-Tail Moth Extermination.**

(Highway Department.)

CREDIT.

Appropriation	\$2,400 00
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DEBIT.

(Expenditures.)

Cash, paid laborers	\$2,277 71	
Allen Bros., badges	3 00	
Lillian M. Hildred, clerical work	46 67	
Wesley A. Maynard, printing	11 00	
E. J. Peterson, injury to clothing	20 10	
E. S. Sparrow & Co., supplies	3 60	
Samuel Ward Co., book	10 00	
		<u>\$2,372 08</u>
Highways Maintenance account, use of city teams	27 92	
		<u>\$2,400 00</u>

Elm-Leaf Beetle Extermination.

(Highway Department.)

CREDIT.

Appropriation	\$700 00
Highways Maintenance account, balance transferred	9 07
	<u>\$690 93</u>

DEBIT.

(Expenditures.)

Cash, paid laborers	\$313 78	
Boston Coupling Co., spray pipe	8 50	
Fitzhenry Gypstill Co., spark plugs	5 00	
Frost Insecticide Co., arsenate of lead	300 00	
Morgan-Bond Co., punch, and oil suit	8 27	
E. S. Sparrow & Co., supplies	3 60	
Somerville Publishing Co., printing cards, ...	10 00	
Valvoline Oil Co., oil	8 81	
		<u>\$657 96</u>
Highways Maintenance account, use of city teams	51 80	
Water Maintenance account, gasoline	24 30	
		<u>\$734 06</u>
Service Transfers, from sundry accounts	43 13	
		<u>\$690 93</u>

Care of Trees.

(Highway Department.)

CREDIT.

Appropriation		\$2,500 00
Highways Maintenance account:—		
Amounts transferred	\$600 00	
Less balance returned	56 80	
		543 20
Street Sprinkling account, amount transferred		400 00
		<u>\$3,443 20</u>

DEBIT.

(Expenditures.)

Cash, paid laborers	\$2,533 29	
F. C. Ayer, lumber	20 22	
Clinton Wire Cloth Co., wire	91 69	
Somerville Journal Co., printing notices, ...	2 25	
	<u>\$2,647 45</u>	
Elm-Leaf Beetle Extermination account, labor	15 00	
Highways Construction account, paving blocks	80	
Highways Maintenance account, use of teams	365 82	
labor	497 33	
	<u>\$3,526 40</u>	
Service Transfers, from Highways Maintenance account	83 20	
		<u><u>\$3,443 20</u></u>

Highways, Shade Trees.

CREDIT.

Appropriations, from Funded Debt, 1913	\$500 00
Highways, Steam Roller account, amount transferred	100 00
	<u>\$600 00</u>
Balance to credit of account, 1914	3 97
	<u>\$596 03</u>

DEBIT.

(Expenditures.)

Cash, paid laborers	\$65 20
F. C. Ayer, lumber	61 13
Clinton Wire Cloth Co., wire cloth	14 70
E. S. Sparrow & Co., staples	6 50
W. B. Whittier & Co., trees	240 00
	<u>\$387 53</u>
Highways Maintenance account, labor and and use of city teams	208 50
	<u><u>\$596 03</u></u>

HEALTH AND SANITATION.

Health Department.

CREDIT.

Appropriation	\$10,400 00
Inspection of School Children account, amount transferred	350 00
	\$10,750 00
Excess and Deficiency account, balance transferred	124 67
	\$10,625 33

DEBIT.

(Expenditures.)

Cash, paid Caleb A. Page, salary as agent	\$1,500 00
Sundry persons, burying dead animals	86 75
Dr. Frank L. Morse, salary as medical inspector	1,600 00
visits to dangerous cases	111 50
Laurence S. Howard, salary as clerk	1,200 00
American Express Co., expressing	7 60
Adams Pharmacy, delivering cultures	60
Thomas D. Bennett, blanket and repairs, D. J. Bennett, repairing harness	4 00
City of Boston, board and care of patients	25 60
Brown's Express, expressing	1,140 37
W. H. Broderick, M. D. C., visits	25
Town of Brookline, board	24 00
City of Brockton, care of patient	76 00
Boston Consumptives' Hospital, care of patient	15 37
Cambridge Ice Co., ice	152 50
Commonwealth of Massachusetts, care of patients	26 89
Cotter & Son, expressing	286 00
City of Cambridge, care of patients	90
Claude Curtis, delivering cultures	538 96
DePree Chemical Co., fumigators	50
City of Everett, care of patients	150 00
Edward Edwards, sundries	150 96
delivering cultures	4 60
W. S. Forbush, delivering cultures	8 50
F. W. Gay, delivering cultures	30
Gilman Express Co., expressing	40
Charles F. Giles, provisions	25
Glines Express Co., expressing	106 00
W. A. Greenough & Co., directory	59
Dr. E. M. Halligan, treatment	4 00
Percy A. Hall, delivering cultures	9 00
U. R. Lincoln & Co., printing	3 00
Lakeville State Sanatorium, care of patient	1 50
G. M. McHugh, copy holder	57
City of Malden, care of patient	3 00
John Morrison, delivering cultures	336 86
	60
Amount carried forward	
	\$7,577 92

Amount brought forward	\$7,577 92
New England Telephone & Telegraph Co., service	154 98
North Reading State Sanatorium, care of patient	457 71
Town of Norwood, care of patient	86 43
Henry W. Perry, delivering cultures	2 80
supplies	1 70
Town of Pepperell, care of patient	16 25
Pneumatic Hand Stamp Co., repairing stamp	1 49
Richardson's Pharmacy, delivering cultures	50
Ira L. Roberts, horseshoeing	31 25
A. P. Rockwood, board of horse, and storage	463 10
Rutland State Sanatorium, care of patients	1,306 95
Renner's Express, expressing	25
Remington Typewriter Co., repairing	12 80
Sidebottom Bros., printing	14 25
R. C. Small & Co., repairing tires	153 50
R. M. Sturtevant, provisions	106 00
Somerville Journal Co., printing	32 30
Somerville Post Office, postage	83 31
F. H. Thomas Co., supplies	1 05
Samuel Ward Co., stationery	16 02
F. S. Webster Co., cutters	30
Whitall Tatum Co., bottles and cork	30 00
Whitney & Snow, tacks	50
Westfield State Sanatorium, board	92 01
George E. Wardrobe, delivering cultures, ...	90
	\$10,644 27
City Clerk's Department account, typewriter supplies	3 80
	\$10,648 07
Service Transfer, from Contagious Hospital account	21 60
	\$10,626 47
Refund, Rutland State Sanatorium, error in pay roll	1 14
	<u>\$10,625 33</u>

Inspection of Animals and Provisions.

CREDIT.

Appropriation	\$1,250 00
Excess and Deficiency account, balance transferred	16 62
	\$1,233 38

DEBIT.

(Expenditures.)

Cash, paid Charles M. Berry, salary as inspector of animals and provisions	\$1,200 00	
New England Telephone & Telegraph Co., service	27 73	
A. P. Rockwood, horse hire	2 00	
State Board of Health, branding outfit	2 65	
Sidebottom Bros., printing	1 00	
		\$1,233 38

Inspection of Milk and Vinegar.

CREDIT.

Appropriation	\$1,800 00
Excess and Deficiency account, balance transferred	29 59
	\$1,770 41

DEBIT.

(Expenditures.)

Cash, paid Herbert E. Bowman, salary as inspector of milk and vinegar	\$1,300 00	
maintenance of automobile	300 00	
sundries	35 53	
Cotter's Express, expressing	2 00	
J. R. Fallon, milk agar	5 00	
Gilman Express Co., expressing	55	
S. M. Howes Co., gas oven	7 30	
International Inst. Co., pipettes	14 07	
Lorenz Model Co., discs	3 10	
Massachusetts Agricultural Experiment Station, Babcock inspection	6 35	
Henry W. Perry, supplies	50	
Standard Calorimeter Co., book	1 10	
Somerville Post Office, postage	6 00	
Sidebottom Bros., printing	7 00	
Somerville Journal Co., printing	13 75	
J. W. Staniford & Co., jars and gauges, ...	4 56	
Whitall Tatum Co., supplies	18 47	
Samuel Ward Co., stationery	1 25	
	\$1,726 53	
Water Maintenance account, gasoline	43 88	
		\$1,770 41

Inspection of School Children.

CREDIT.

Appropriation	\$2,150 00
Health Department account, amount transferred	350 00
	\$1,800 00
Excess and Deficiency account, balance transferred	24 74
	\$1,775 26

DEBIT.

(Expenditures.)

Cash, paid W. L. Bond, medical inspection,	\$200 00
Herbert Cholerton, medical inspection	200 00
Edward J. Dailey, medical inspection	200 00
Robert F. Gibson, medical inspection	200 00
Loring H. Raymond, medical inspection	200 00
Francis Shaw, medical inspection	200 00
H. M. Stoodley, medical inspection	200 00
Michael W. White, medical inspection	100 00
Ella B. Hornbrooke, school nurse	244 83
disbursements	12 43
Somerville Journal Co., printing	6 00
Sidebottom Bros., printing	12 00
	\$1,775 26

City Clerk's Department, Vital Statistics.

CREDIT.

Appropriation	\$2,300 00
City Clerk's Department account, amount transferred	1,210 00
	\$1,090 00
Election Expenses, City Clerk account, balance transferred	202 28
	\$887 72

DEBIT.

(Expenditures.)

Cash, paid Brown-Howland Co., cards	\$8 57
John Bryant's Sons, reporting deaths	20 00
Robert Burlen, binding	2 50
Frederic W. Cook, disbursements	2 70
George I. Canfield, canvassing births	75 70
W. A. Frink, reporting deaths	11 75
David Fudge & Son, reporting deaths	17 25
Mrs. Susie G. Geist, canvassing births	1 90
Annie M. Gilcrease, canvassing births	87 00
Thomas Groom & Co., binder and index	23 00
J. Henry Hartwell & Son, reporting deaths	2 00
Library Bureau, cards	15 00
G. F. McKenna & Son, reporting deaths	12 50
Alfred E. Mann, reporting deaths	5 25
George E. Plimpton, canvassing births	51 00
Leonard C. Spinney, canvassing births	30 20
Sundry persons, reporting births	433 25
Somerville Publishing Co., printing	3 75
Somerville Journal Co., printing	18 65
Francis M. Wilson, reporting deaths	29 50
Samuel Ward Co., paper and binder	36 25
	\$887 72

Contagious Hospital.

CREDIT.

Appropriation	\$12,000 00
Amount carried forward	\$12,000 00

Amount brought forward	\$12,000 00
Municipal Loan, amount appropriated	4,000 00
Revenue account, amount appropriated	1,000 00
	\$17,000 00
Excess and Deficiency account, balance transferred	9 03
	\$16,990 97

DEBIT.

(Expenditures.)

Cash, paid Edith M. Grant, matron	\$1,000 00
incidental expenses	286 53
Nurses and assistants	6,991 21
Charles R. C. Borden, M. D., operations	100 00
Joseph Breck & Son, fertilizer	2 10
Robert Burlen, book binding	3 00
A. T. Bridges Co., preserves	8 05
Burnitol Mfg. Co., cuspidors and napkins, ...	11 55
City Home, milk and produce	243 25
Cambridge Ice Co., ice	198 93
Cobb, Bates & Yerxa, groceries	354 28
S. H. Couch Co., batteries and labor	11 10
Cambridge Gas Light Co., grates	60
Dennison Mfg. Co., sundries	7 70
Eastern Drug Co., malted milk	3 50
Farley, Harvey & Co., dry goods	94 77
Fleischmann Co., yeast	12 15
Willis S. Furbush, supplies	255 62
C. H. Goldthwaite & Co., supplies	8 65
Gilman Express Co., expressing	3 00
Globe-Wernicke Co., cabinet, etc.	17 05
General Baking Co., bread	1 76
W. A. Greenough & Co., directory	4 00
Hamilton, Brown Shoe Co., shoes	23 97
F. J. Hopkins, fish	195 79
Martin L. Hall Co., groceries	137 42
J. W. Howard, plants	30 85
I. N. Holman, sharpening mower	1 25
Hobbs & Warren, blanks	2 00
Jones, McDuffee & Stratton Co., dishes	58 68
Jordan, Marsh Co., supplies	188 07
George T. Johnson Co., toilet paper	11 00
H. W. Johns-Manville Co., supplies	8 75
Lewis Mfg. Co., supplies	52 54
Library Bureau, guides	4 80
Massachusetts Reformatory, towelling	1 50
Massachusetts State Prison, brushes	6 00
Miley Soap Co., soap	35 00
Middlesex County House of Correction, sink whisks	1 25
National Biscuit Co., crackers	57 16
New England Telephone & Telegraph Co., service	71 65
S. S. Pierce Co., liquor	15 00
George G. Page Box Co., cases	6 80
P. L. Rider, supplies	133 27
Richardson, Wright & Co., repairing beds, ...	
Amount carried foward	\$10,661 55

Amount brought forward	\$10,661 55	
etc.	129 22	
E. S. Sparrow & Co., hardware	6 40	
C. L. Stevens, provisions	3,963 47	
Stone & Forsyth, napkins, etc.	127 30	
Swallow & Fales, groceries	378 22	
Sampson-Soch Co., hot-water bottles, etc., ...	39 39	
Somerville Journal Co., printing	30 75	
Strong, Marsen Co., meat	9 95	
Somerville Brush Co., sweepers	12 15	
W. C. Stickle, newspapers	5 60	
A. S. Tyler, milk	1,233 00	
Watson, Hallett Co., butchers' wax	18 24	
Henry A. Wheeler & Co., re-covering awning	23 00	
Wilson, Larrabee & Co., dry goods	63 92	
Washburn, Crosby Co., flour	163 90	
Samuel Ward Co., book	8 50	
Mitchell Wing Co., hoops and soap	31 64	
William J. Wiley, rat trap, and repairing	17 01	
Whitall, Tatum Co., supplies	4 93	
	\$16,928 14	
Health Department account, fumigators	21 60	
Police Department, service	41 23	
		\$16,990 97

Public Buildings Department, Maintenance Contagious Hospital.

CREDIT.

Appropriation	\$3,400 00
Excess and Deficiency account, balance transferred	15 41
	\$3,384 59

DEBIT.

(Expenditures.)

Cash, paid janitors' salaries	\$260 00
Frederick S. Dickinson, pension	170 29
Labor	4 00
Armstrong Bros., plumbing	148 97
M. P. Beyer, electrical work	3 08
Beyer & McDonald, electrical work	16 22
Cambridge Gas Light Co., gas	117 36
Henry N. Clark Co., stove cover, etc.	2 80
C. W. Cahalan, plumbing	16 80
Edison Electric Illuminating Co., lighting, ...	1,174 62
F. C. Fuller & Co., hardware	20
Glines Express Co., expressing	30
Grant Nail & Supply Co., steel pulley	1 79
J. J. Hurley & Co., repairing heating ap- paratus	12 74
Jordan, Marsh Co., carpet and rugs	166 25
T. E. Littlefield, lumber	2 08
Martin & Wood, electrical work	7 38
B. L. Makepeace, blue prints	22
Newton & Dunbar, electrical work	2 15
Amount carried forward	\$2,107 25

Amount brought forward	\$2,107 25	
Pittsburg Plate Glass Co., glass	1 42	
George L. Robinson, painting	25 85	
F. M. Rogers & Co., interior painting	219 00	
P. Sutherland & Co., oil	60	
E. S. Sparrow & Co., hardware	21 95	
Daniel Sullivan, oil	2 40	
William J. Wiley, hardware	38 09	
Wellington-Wild Coal Co., fuel	963 07	
	\$3,379 63	
Water Maintenance account, repairing leak in service pipe	4 96	
		<u>\$3,384 59</u>

SANITATION.**Sewers Construction.**

CREDIT.

Balance from 1912	\$12 23
Appropriation, from Funded Debt, 1913	30,000 00
	\$30,012 23
Sidewalks Construction account, amount transferred	670 68
	\$29,341 55
Sewer Assessments account, assessments levied	1,716 21
	\$31,057 76
Balance to credit of account, 1914	4,391 68
	\$26,666 08

DEBIT.

(Expenditures.)

Cash, paid laborers	\$2,953 70
Edson Mfg. Co., hose, etc.	52 20
J. H. Edwards, steps	3 00
Highland Coal Co., drain pipe	2,401 51
Thomas Leighton, Jr., Register, recording releases	4 49
David W. Lewis, grates	13 93
M. Norton & Co., hose	55 50
Parry Brick Co., bricks	332 29
Portland Stone Ware Co., drain pipe	737 86
Margaret A. Simpson, sand	11 00
Sessions Foundry Co., castings	757 46
Starrett, Fields Co, cement	946 20
James Tevlin, teaming	971 64
Warren Bros., repairing pavement	12 50
Waldo Bros., sewer pipe	210 10
Frederick B. Witherly, castings	187 65
F. B. Young, water used in constructing sewer	2 64
Bartholomew Burke, constructing sewers:—	
Central road	454 24
Burnham street	451 08
Vernon street	175 77
Amount carried forward	\$10,734 76

Amount brought forward	\$10,734 76	
Bartlett street (storm drain)	397 90	
Denis I. Crimmings, constructing sewers:—		
Hall and Francesca avenues, and storm		
drain on Elm street	2,525 97	
Private lands	461 02	
Broadway, Cutter and Rush streets	1,876 00	
Overflow manhole, labor and teams	116 39	
Charles A. Kelley, constructing sewers:—		
Pearl street:—		
Sewer	2,966 21	
Storm drain	693 30	
Vermont avenue:—		
Sewer	194 92	
Storm drain	130 00	
Virginia, Delaware, Flint and Aldrich		
streets	3,168 85	
John D. Collins, constructing sewers:—		
Brook and Glen streets	1,343 00	
	\$24,608 32	
Highways Maintenance account, use of		
teams	1,624 05	
Sewers Maintenance account, labor	456 99	
Water Maintenance account, repairing pipes	5 55	
	\$26,694 91	
Service Transfer, from Sidewalks Construc-		
tion account	5 67	
	\$26,689 24	
Refunds:—		
Alpha-Portland Cement		
Co., bags returned	\$14 70	
Eastern Clay Goods Co.,		
bags returned	8 46	
	23 16	
	\$26,666 08	

Sewers Maintenance.

CREDIT.

Appropriation	\$13,000 00
Parks Maintenance account, amount transferred	700 00
	\$13,700 00
Excess and Deficiency account, balance transferred	05
	\$13,699 95

DEBIT.

(Expenditures.)

Cash, paid laborers	\$7,482 13
F. C. Ayer, lumber	6 78
E. C. Andrews Co., part cost auto top, and	
repairs	30 00
Ernest W. Bailey, one half cost register-	
ing automobile	7 50
Amount carried forward	\$7,526 41

Amount brought forward	\$7,526 41	
Charles E. Berry, iron work	17 45	
Boston Coupling Co., hose	118 40	
Boston & Maine Railroad, freight . .	38	
Clinton E. Bray, part cost maintenance motor cycle	58 11	
Thomas D. Bennett, chamois skin . .	1 25	
Cornelius Callahan Co., repairing hose .	7 50	
Ernest W. Danforth, disbursements .	36 10	
Dimond Rubber Co., tire case	29 88	
J. H. Edwards, repairing tool house, etc.	2 80	
Edson Mfg. Co., valve and bolt	2 79	
Fiske Rubber Co., cases and tubes . .	228 79	
Gulf Refining Co., kerosene	13 50	
Gilman Express Co., expressing	40	
Hub-Mark Rubber Co., rubber boots . .	69 03	
Hemeon Bros., stock and labor	2 75	
Knox Automobile Co., repairing automomobile	28 39	
Martin & Wood, repairing tools	5 10	
Charles T. McGrath, painting	7 50	
D. Mahoney, repairing rubber boots . .	16 70	
Frank and William H. McLaughlin, settlement of damages	135 00	
New England Telephone & Telegraph Co., service	31 16	
Penniman & James, jack	3 50	
Portland Stone Ware Co., sewer pipe . .	6 05	
Parry Brick Co., bricks	79 30	
Perrin, Seamans & Co., sewer rod and couplings	6 48	
Rhody Boot Co., rubber boots	13 00	
Margaret A. Simpson, sand	42 50	
Alden Speare's Sons Co., oil	20 30	
James Tevlin, teaming	5,519 67	
Underhill Co., gasoline and grease . .	24 97	
Whitney & Snow, supplies	47 78	
Frederick B. Witherly, castings	52 32	
Waldo Bros., cement	7 60	
	\$14,162 86	
Water Maintenance account, repairs . .	7 58	
	\$14,170 44	
Service Transfers, from sundry accounts .	470 49	
		\$13,699 95

**Public Buildings Department, Maintenance Sewer
Buildings.**

CREDIT.

Appropriation	\$200 00	
Maintenance School Buildings account, amount trans- ferred	75 00	
	\$125 00	
Excess and Deficiency account, balance transferred . .	35 62	
		\$89 38

DEBIT.
(Expenditures.)

Cash, paid labor	\$8 00	
F. C. Ayer, lumber	4 99	
Hemeon Bros., repairing roof	39 94	
George L. Robinson, painting	1 00	
I. B. Walker, bolts and washers	3 20	
Wellington-Wild Coal Co., fuel	32 25	
		\$89 38

Refuse Disposal.

(Highway Department)

CREDIT.

Appropriation	\$73,000 00
Municipal Loan, amount appropriated	7,000 00
Contingent Fund account, amount transferred	2,000 00
	\$82,000 00
Highways Maintenance account, balance transferred	190 19
	\$81,809 81

DEBIT.
(Expenditures.)

Cash, paid Edgar T. Mayhew, salary as superintendent	\$1,400 00
Asa B. Prichard, registering auto-truck	5 00
Laborers	59,395 36
Teaming	6,356 92
Anderson & Anderson, garbage pails	27 00
Burbank & Ryder Varnish Co., denatured alcohol	27 40
Harold L. Bond Co., rope	8 56
Barrett Mfg. Co., tarvia	43 90
Boston Woven Hose & Rubber Co., repairing hose	1 50
Buffalo Steam Roller Co., grease	2 50
Boston Varnish Co., paint	23 75
G. S. Cheney Co., flaxseed meal, vaseline, etc., ...	16 34
Cotter & Son, expressing	40
Chandler & Farquhar, nozzles	1 19
F. C. Dinsmore, horse	245 00
Dodge, Haley Co., bolts, chains, screws, etc.	42 39
Charles L. Ellis, hay	210 28
J. H. Edwards, shoeing	25
Edson Mfg. Co., flanges and cups	14 85
F. C. Fuller & Co., lead	8 50
Thomas Groom & Co., account book	6 50
Glines & Co., expressing	25
B. F. Goodrich Co., tires	199 50
A. C. Harvey Co., calks, nails, etc.	301 01
Highland Coal Co., lime	1 25
William H. Hitchings, veterinary	18 00
Iver Johnson Sporting Goods Co., sementol	60
Amount carried forward	\$68,358 20

Amount brought forward	\$68,358 20	
Ideal Supply Co., hose bib	60	
R. S. Lombard, oats and bran	261 25	
George W. Ladd, shoeing	50	
Lord & Webster Co., hay and straw	3,038 98	
J. Loring & Co., horse feed	26 00	
Morgan-Bond Co., harness supplies	356 05	
Wesley A. Maynard, printing	13 00	
Charles F. Mills, horse	175 00	
New England Telephone & Telegraph Co., service	30 83	
Fulton O'Brien, oats	215 00	
F. W. Pendergast, push brooms	4 00	
Perrin, Seamans & Co., shovels	81 32	
Henry W. Perry, prescription	75	
Proctor Bros. Grain Co., grain	2,259 30	
Phelps Bros., hay and straw	579 48	
A. H. Proctor & Co., oats and bran	254 25	
Frank Richardson, shoeing	90	
Reed Bros. & Sawin, rental of dump	600 00	
Rogers Bros., welding compound	1 50	
John Reardon & Sons Co., castile	2 00	
John B. Rufer, clipping horse	2 00	
Charles R. Simpson, veterinary services	3 50	
E. S. Sparrow & Co., supplies	60	
Alden Speare's Sons Co., oil	22 20	
Stickney & Poor Spice Co., mustard, etc.	4 70	
Somerville Journal Co., printing	29 14	
Somerville Publishing Co., printing	5 00	
H. A. Stiles & Co., handles, etc., ...	4 93	
Teel Mfg. Co., grease-cups, chain, etc	287 72	
Underhill Hardware Co., hardware	22 92	
L. A. Wright, wheels, etc.	33 30	
Samuel Ward Co., account books	10 00	
Watson Wagon Co., ash wagon	243 40	
I. B. Walker, shoeing	11 75	
A. J. Wilkinson & Co., supplies	50	
D. L. Webb, salt	40	
Winchester Tar Disinfecting Co., disin- fectant	12 50	
	\$76,953 47	
Highways Construction account, paving blocks	18 20	
Highways Maintenance account, teams and material	4,536 33	
Street Sprinkling account, running gear	75 00	
Water Maintenance account, gasoline	241 86	
	\$81,824 86	
Refund: Sundry persons, error in payrolls	15 05	
		<u>\$81,809 81</u>

Refuse Disposal, New Equipment.

CREDIT.

Balance from 1912	\$50 00
Building Public Buildings account, amount transferred	50 00

Public Buildings Department, Maintenance Refuse Buildings.

CREDIT.

Appropriation	\$1,000 00
Excess and Deficiency account, balance transferred	6 81
	\$993 19

DEBIT.

(Expenditures.)

Cash, paid labor	\$26 00
F. C. Ayer, lumber	11 02
C. W. Cahalan, plumbing	5 99
Edison Electric Illuminating Co., lighting	277 81
Glines Express Co., expressing	25
T. E. Littlefield, lumber	63 60
J. Edward L. McLean, labor and material for storehouse addition and loading platform	512 09
George L. Robinson, painting	1 00
E. S. Sparrow & Co., hardware	14 80
Wellington-Wild Coal Co., fuel	80 63
	\$993 19

Highways, Street Cleaning.

CREDIT.

Appropriation	\$21,000 00
Highways Maintenance account, amounts transferred	\$800 00
Less balance returned	198 70
	601 30
Water Works Extension account, amount transferred	1,000 00
	\$22,601 30

DEBIT.

(Expenditures.)

Cash, paid laborers	\$17,496 17
Teaming	1,138 13
American Broom Co., refilling brooms	15 00
Dyar Supply Co., new section brooms, and freight	35 50
Edson Mfg. Co., sprocket, gear, etc.	21 10
Walter W. Field & Son, repairing sweeper	31 60
F. W. Pendergast, refilling, and push brooms	60 00
	\$18,797 50
Highways Maintenance account, use of city teams	3,803 80
	\$22,601 30

HIGHWAYS.**Highways Construction.**

CREDIT.

Balance from 1912		\$2,857 84
Appropriations, from Funded Debt, 1913		20,000 00
Municipal Loan, amount appropriated.		7,000 00
Highway Betterment Assessments account, assessments levied		7,135 45
		\$36,993 29
Balance to credit of account, 1914		313 38
		\$36,679 91

DEBIT.

(Expenditures.)

Cash, paid laborers	\$9,020 35	
Teaming	1,298 14	
Barrett Mfg. Co., tarvia	3,585 76	
Edwin O. Childs, Register, recording documents	54 75	
Coleman Bros., crushed stone	4,220 61	
James H. Fannon, paving:—		
Elm street	5,107 04	
Water street	2,523 11	
Tufts street	2,524 05	
Frederick C. and Charles E. Fitz, Trustees, settlement for damages to estate,	100 00	
Thomas Leighton, Jr., Register, recording takings	13 05	
S. & R. J. Lombard, paving blocks	3,244 41	
Somerville Publishing Co., advertising hearings	59 63	
Somerville Journal Co., advertising	164 50	
Samuel Ward Co., account books	9 00	
	\$31,924 40	
Highways Maintenance account, use of city teams	4,876 36	
Sidewalks Construction account, cement	4 44	
Sidewalks Maintenance account, paving bricks	18 72	
	\$36,823 92	
Service Transfers, from sundry accounts	144 01	
		\$36,679 91

Highways Maintenance.

CREDIT.

Appropriation		\$33,000 00
Transferred from the following accounts:—		
Street Sprinkling	\$2,003 15	
Care of Trees	56 80	
Elm-Leaf Beetle Extermination	9 07	
Street Cleaning	198 70	
Refuse Disposal	190 19	
Amounts carried forward	\$2,457 91	\$33,000 00

Amounts brought forward	\$2,457 91	\$33,000 00
Sidewalks Maintenance	558 12	
Maintenance Highway Buildings	43 50	
Contingent Fund, balance of account	806 96	
		3,866 49

\$36,866 49

Transferred to the following accounts:—

Care of Trees	\$600 00	
Street Cleaning	800 00	
Street Sprinkling	650 00	
		2,050 00

\$34,816 49

DEBIT.

(Expenditures.)

Cash, paid Asa B. Prichard, salary as street commissioner	\$2,400 00
registration of automobile	10 00
Albert M. Burbank, foreman	1,334 25
Laborers	29,743 51
Teaming, hired teams	534 75
Edward Cotty, pension	337 92
F. C. Ayer, lumber	399 97
American Express Co., expressing	3 10
S. Armstrong Co., bungs	1 50
Alden Speare's Sons Co., oil	10 24
Delia Avery, settlement of claim for injuries	100 00
Ashton Valve Co., repairing gage	5 90
Archibald Wheel Co., axles	17 60
Tennyson L. Baker, settlement of claim	87 50
Boston Spring Co., draught springs	7 20
Buffalo Steam Roller Co., supplies	165 01
Barrett Mfg. Co., tarvia	997 13
Boston Woven Hose & Rubber Co., steam hose	26 35
Charles E. Berry, repairing	3 15
Harold L. Bond Co., tools	45 83
Joseph Breck & Sons, tools	8 82
Braman, Dow & Co., pipe and labor	2 14
Boston Belting Co., belting	81 42
Mrs. H. I. Buss, bricks	7 59
Boston & Maine Railroad, freight	3 00
Boston Varnish Co., varnish	19 00
Jackson Caldwell & Co., linoleum	1 25
Cotter & Son, expressing	1 20
Consolidated Rendering Co., salt	3 00
J. P. Conner & Son, auto storage	81 40
G. S. Cheney Co., supplies	37 77
Robert B. Campbell, tools	5 88
A. W. Chesterton Co., packing	71 01
Cling Surface Co., cling surface	7 00
Samuel Cabot, lamp black	25 80
Chandler & Farquhar Co., supplies	37 68
Joe Cotter, smoke stacks	9 00
James R. Cutler, settlement for damages	12 00

Amount carried forward \$36,645 87

Amount brought forward	\$36,645 87
Coleman Bros., crushed stone	252 74
Challenge Oil Co., metal polish	1 00
H. A. Cosgrove, fly oil	5 00
Mildred Conti, settlement for injuries	600 00
Neils A. Dolleris & Son Co., inner tubes	15 25
Dodge-Haley Co., axles	4 80
R. W. Doe, labor and iron	5 85
H. I. Dailman Co., push brooms	48 50
Dyar Supply Co., tools	6 30
Davenport-Brown Co., sawing stock	5 40
Charles E. Daley, settlement for injuries	125 00
W. J. Emerson, shoes	7 00
Eastern Clay Goods Co., cement	381 80
J. H. Edwards, horseshoeing	1 00
G. A. Fletcher, frame	80
Catherine J. Flaherty, bricks	19 60
Walter W. Field & Son, labor on road roller, etc.	80 03
F. C. Fuller & Son, supplies	23 70
James A. Ferguson, refilling broom	12 00
Jean E. Findlay, settlement for injuries	500 00
Elizabeth Fitzpatrick, settlement for in- juries	60 00
B. F. Goodrich Co., valves, caps, etc.	47 52
Gulf Refining Co., kerosene	296 10
Glines Express Co., expressing	3 65
Gilman Express Co., expressing	16 60
Good Roads Machinery Co., clamps and bolts	24 25
Globe-Wernicke Co., cabinet, etc.	7 70
Thomas J. Grey Co., plow handles	10 00
Thomas Groom & Co., tape	05
Gray & Turner, employees' liability in- surance	2 72
George Gonias, bricks	10 50
William H. Hitchings, veterinary ser- vices	54 00
Margaret Hanlon, settlement of claim	30 00
Headley Good Roads Co., terricolio	236 53
J. W. Howard, flowers, etc.	30 00
Arthur C. Harvey Co., horse shoes, nails, calks, etc.	520 74
Hill-Michie Co., labor, tape, etc.	83 14
Hay Bros. Co., iron rods	6 70
E. J. Hervey, forcite, etc.	107 30
Iver-Johnson Sporting Goods Co., re- liners and lamp covers	4 30
Ingersoll-Sergeant Drill Co., valve buf- fers	5 36
Richard A. Keyes, transcribing annual report	4 00
R. S. Lombard, oats and bran	360 75
T. E. Littlefield, lumber	19 30
A. C. Libbey & Sons, stationery	64 93
George W. Ladd, horseshoeing	1 20
Lord & Webster Co., straw and hay	2,536 20
J. Loring & Co., horse feed	26 00
Amount carried forward	\$43,311 18

Amount brought forward	\$43,311 18
S. & R. J. Lombard, circles	344 67
Morgan-Bond Co., saddlery hardware	374 17
H. L. McPherson, stamps and brands	16 75
Wesley A. Maynard, printing	5 25
W. B. Mullen, gravel	1,238 94
Martin & Wood, wire labor	4 61
Mystic Rubber Co., repairing automobiles, ...	34 77
Ellen Mangan, settlement of claim	56 00
Eliza Marchant, settlement of claim	600 00
William F. Morang, sand	84 00
Michelin Tire Co., tubes	6 65
Robert J. Moody, settlement for injuries	36 50
New England Towel Supply Co., towels	7 20
New England Telephone & Telegraph Co., service	130 90
Fulton O'Brien, oats	301 00
A. H. Proctor & Co., grain	350 55
Perry Prescription Pharmacy, horse medi- cine	2 30
Henry W. Perry, horse medicine	1 00
Proctor Bros. Grain Co., grain	2,858 55
Perrin, Seamans & Co., tools	348 02
Phelps Bros., hay and straw	336 57
Parry Brick Co., bricks	92 40
Joseph Palmer, truck spring	12 50
F. W. Pendergast, push brooms	12 00
John B. Rufer, clipping horses	4 00
Rowell, Dodge & Co., tire	3 00
Roberts Iron Works Co., repairing grates, ...	9 41
Rogers Bros., welding compound, etc.	1 25
A. F. Robinson Boiler Works, repairing cart	11 30
Seward & Clark Mfg. Co., pinion	30
E. S. Sparrow & Co., hardware	131 56
Stickney & Poor Spice Co., mustard and ginger	4 70
Somerville Journal Co., books, etc.	51 25
Dorothy M. Sylva, settlement for injuries, ...	35 00
J. Silk Co., gravel	42 75
Somerville Publishing Co., printing	4 25
Louisa M. Smith, bricks	4 84
Stewart-Warner Speedometer Corp., shafts and pinions	2 85
W. A. Snow Iron Works, repairing fence	197 00
Somerville Post Office, postage	19 60
Lewis E. Tracey Co., lace	13 50
R. J. Todd Co., arms, tire bolts, etc.	12 83
Underhill Hardware Co., tools	73 37
Valvoline Oil Co., cylinder oil	94 06
Van Buskirk & Osborne Co., setting tires	4 00
Warren Bros. Co., paving	7,365 83
A. J. Wilkinson & Co., solder and cement, ...	1 58
D. L. Webb, salt and lard	1 30
I. B. Walker, horseshoeing	76 81
A. M. Wood Co., wagon stock	182 95
Amount carried forward	\$58,915 77

Amount brought forward	\$58,915 77	
Samuel Ward Co., account books	31 50	
Wellington-Wild Coal Co., fuel	1,210 74	
Whitney & Snow, hardware	69 90	
Winchester Tar Disinfecting Co., tar disinfectant	15 75	
Harry T. Wright, vise	1 35	
L. A. Wright, repairing wheels	59 00	
Asahel Wheeler Co., gold leaf	23 95	
Walworth Mfg. Co., valves	10 09	
Wheeler, McElveen & Co., horses	700 00	
Warren Chemical & Mfg. Co., paving cement	7 86	
City of Waltham, taxes of 1913	175 21	
		\$61,221 12
City Messenger's Department account, horse	131 09	
Highways, Care of Trees account, labor	83 20	
Highways Construction account, paving blocks	112 18	
Sidewalks Construction account, cement	124 41	
Sidewalks Maintenance account, repairing sidewalks	59 17	
Water Maintenance account, gasoline, etc.	85 69	
expense to Wachusett Reservoir	10 00	
		\$61,826 86
Service Transfers, from sundry accounts	27,008 11	
		\$34,818 75
Refund, B. F. Goodrich Co., refund on bill, ...	2 26	
		<u>\$34,816 49</u>

Highway Department, Steam Roller.

CREDIT.

Appropriations, from Funded Debt, 1913	\$4,500 00
Shade Trees account, balance transferred	100 00
	\$4,400 00

DEBIT.

(Expenditures.)

Cash, paid Buffalo Steam Roller Co., steam roller	<u>\$4,400 00</u>
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Sidewalks Construction.

CREDIT.

Balance from 1912	\$382 37
Appropriations, from Funded Debt, 1913	20,000 00
Cash, received from Zebedee E. Cliff, concreting	\$98 16
Boston & Maine Railroad, concreting	17 49
Abutters on Powder House Boulevard	404 00
Abutters on Elm street	580 00
Abutters on Washington street	76 21
	1,175 86
Amount carried forward	\$21,558 23

Amount brought forward		\$21,558 23
Sidewalk Assessments account, assessments levied	\$18,198 89	
Less abatements	16 76	
		<u>18,182 13</u>
		\$39,740 36
Sewers Construction account, balance transferred . .		<u>670 68</u>
		<u>\$40,411 04</u>

DEBIT.

(Expenditures.)

Cash, paid laborers	\$17,382 76
Teaming, hired teams	2,175 03
Thomas Allen, concreting	5,369 65
Armour Concrete Construction Co., laying granolithic sidewalks on Broadway .	162 00
Boston & Maine Railroad, freight . .	1 00
Eastern Clay Goods Co., cement . . .	3,883 61
S. & R. J. Lombard, edgestones and circles	6,635 76
Parry Brick Co., bricks	639 77
Samuel Ward Co., account books . .	13 20
	<u>\$36,262 78</u>
Engineering Department account, edgestones and circles	99
Sewers Construction account, edgestones, etc.	5 67
Highways Maintenance account, use of city teams and materials	5,242 69
Parks Maintenance account, sods . . .	107 88
	<u>\$41,620 01</u>
Service Transfers, from sundry accounts .	146 88
	<u>\$41,473 13</u>
Refund: Eastern Clay Goods Co., bags returned	1,062 09
	<u>\$40,411 04</u>

Sidewalks Maintenance.

CREDIT.

Appropriation	\$5,000 00
Highways Maintenance account, balance transferred .	558 12
	<u>\$4,441 88</u>

DEBIT.

(Expenditures.)

Cash, paid laborers	\$2,376 61
Teaming, hired teams	48 75
American Tube Works, bricks	2 10
Joseph Cohen, bricks	32 90
Parry Brick Co., bricks	174 15
Samuel Ward Co., account books . .	13 20
	<u>\$2,647 71</u>
Amount carried forward	\$2,647 71

Amount brought forward	\$2,647 71	
Highways Construction account, paving blocks	12 83	
Highways Maintenance account, city teams and materials	1,841 20	
Sidewalks Construction account, cement	18 03	
	\$4,519 77	
Service Transfers, from sundry accounts	77 89	
		\$4,441 88

Street Sprinkling.

CREDIT.

Appropriation		\$28,000 00
Reduced by the following transfers:—		
Highways Maintenance account	\$2,000 00	
Less returned	650 00	
	\$1,350 00	
Care of Trees account	400 00	
		1,750 00
		\$26,250 00
Highways Maintenance account, balance transferred		3 15
		\$26,246 85

DEBIT.

(Expenditures.)

Cash, paid laborers	\$3,623 78
Teaming, hired teams	190 00
Ashton Valve Co., gage	1 00
F. C. Ayer, lumber	18 03
S. Armstrong Co., pine bungs	38
Barrett Mfg. Co., tarvia	1,413 49
Boston Varnish Co., varnish, etc.	120 75
Boston & Maine Railroad, freight	23 00
Cambridge Gas Light Co., gas	1,377 05
Continental Rubber Works, hose	17 00
Dustoline Co., dustoline	570 59
W. A. Darling, hose and coupling	29 40
Edson Mfg. Co., gasoline engine, etc.	134 19
F. C. Fuller & Co., white lead	24 00
Headley Good Roads Co., road oil	2,206 01
Lillian M. Hildred, clerical work	78 67
Island Petroleum Co., road oil	677 18
Indian Refining Co., asphalt	540 22
Kinney Mfg. Co., supplies	14 25
Mary L. Murray, clerical work	97 34
Medford Street Market, lard	2 32
City of Medford, oiling	54 00
Page & Curtin, plugs	1 52
Alden Speare's Sons Co., asphalt oil	6,477 64
E. S. Sparrow & Co., oilers	70
Standard Oil Co. of New York, road oil	3,220 48
Studebaker Bros. Co. of New York, oiler attachments, etc.	352 00
Amount carried forward	\$21,264 99

Amount brought forward	\$21,264 99	
Underhill Hardware Co., japan and tur- pentine	27 50	
Valvoline Oil Co., cyclinder oil	2 10	
Samuel Ward Co., books	20 00	
Whitney & Snow, brushes	10 61	
Daniel Collins, street sprinkling	96 07	
James G. Doherty, street sprinkling	638 00	
Elizabeth W. Emery, street sprinkling	553 00	
Charles Elkins, street sprinkling	222 00	
Suburban Coal Co., street sprinkling	614 00	
	\$23,448 27	
Highways Maintenance account, use of city teams and materials	2,786 92	
Water Maintenance account, maintenance of water posts, and gasoline	86 66	
	\$26,321 85	
Service Transfer, from Refuse Disposal ac- count	75 00	
		\$26,246 85

Street Lighting.

	CREDIT.	
Appropriation		\$56,000 00
	DEBIT.	
	(Expenditures.)	
Cash, paid Boston Tavern, dinners	\$7 00	
Boulevard Auto Co., car hire	9 00	
Edison Electric Illuminating Co., street lighting	55,970 00	
shifting lamps	14 00	
		\$56,000 00

Public Buildings Department, Maintenance Highway Buildings.

	CREDIT.	
Appropriation		\$1,000 00
Maintenance Police Building account, amount transferred, ...		300 00
		\$1,300 00
Highways Maintenance account, balance transferred		48 50
		\$1,256 50
	DEBIT.	
	(Expenditures.)	
Cash, paid labor	\$186 00	
F. C. Ayer, lumber	116 51	
Broad Gauge Iron Works, truck	4 45	
James W. Benjamin, carpentering	15 00	
Carlisle-Ayer Co., sash	11 47	
R. W. Doe, repairing iron pipe	25 90	
Amount carried forward	\$359 33	

Amount brought forward	\$359 33	
Edison Electric Illuminating Co., lighting	117 63	
Glines Express Co., service	75	
J. J. Hurley & Co., new radiator	49 74	
S. D. Hicks & Son, repairing roof	35 00	
James Hayden, building fence	85 93	
T. E. Littlefield, lumber	131 56	
Charles F. Mills, carpentering	108 00	
J. Edward L. McLean, constructing loading platform, etc.	132 42	
George W. Manning, labor on flag pole	8 00	
George L. Robinson, painting	3 00	
W. A. Snow Iron Works, iron rings	5 40	
E. S. Sparrow & Co., hardware	94 94	
Walker & Pratt Mfg. Co., grate, etc.	1 65	
Wellington-Wild Coal Co., fuel	123 15	
		<u>\$1,256 50</u>

Alewife Brook Bridge.

	CREDIT.	
Balance from 1912		\$3,500 00
	DEBIT.	
	(Expenditures.)	
Cash, paid City's Engineer's assistants, services	\$35 98	
Ernest W. Bailey, special engineering services	150 00	
Hanscom Construction Co., constructing bridge	3,282 50	
B. L. Makepeace, prints	13 44	
Samuel Ward Co., paper	1 50	
	<u>\$3,483 42</u>	
Engineering Department account, surveys, plans, etc.	16 58	
		<u>\$3,500 00</u>

Grade Crossings Expenses.

	CREDIT.	
Balance from 1912		\$5,818 09
Balance to credit of account, 1914		<u>5,818 09</u>

CHARITIES.

Poor Department, Miscellaneous.

	CREDIT.	
Appropriation	\$20,000 00	
Contingent Fund account, amounts transferred	1,756 30	
	<u>\$21,756 30</u>	
Excess and Deficiency account, balance transferred	32 85	
		<u>\$21,723 45</u>

DEBIT.

(Expenditures.)

Cash, paid Charles C. Folsom, salary as agent	\$1,700 00
disbursements	1,308 46
C. Clarke Towle, M. D., salary as city physician	1,500 00
Loring H. Raymond, acting city physician	60 00
Cora F. Lewis, secretary	700 00
Jeanette M. Hutchins, clerical services	444 34
H. G. Applin, groceries	168 50
Town of Blackstone, aid	50
Mrs. E. M. Bangs, board	104 30
James Bartley, groceries	1,043 50
City of Boston, aid	1,939 53
City of Brockton, aid	131 85
J. H. Brooks, dry goods	8 50
Annie F. Brown, superintendent, allowance	43 45
Charles S. Butters, groceries	26 00
N. V. Blodgett, groceries	10 00
H. A. Butters, groceries	24 00
C. Carbone & Co., groceries	155 00
W. J. Casey & Co., groceries	390 50
Mercy J. Chase, allowance	64 11
A. F. Carpenter, groceries	121 00
F. E. Cheney Co., groceries	10 00
Children's Aid Society, board	117 15
Children's Mission, board	130 00
Edward Coliten & Son, groceries	213 50
Commonwealth of Massachusetts, board	608 36
City of Cambridge, aid	409 68
F. Callahan & Co., ambulance	18 00
Sarah Conlon, board	17 43
George L. Doherty, burial	46 00
Edgar E. Donnell, board	104 30
Mary Drury, board	120 00
Harry A. Dunham, groceries	16 00
James Davis, groceries	40 00
Lena T. Davis, allowance	47 58
Thomas A. Dewire, groceries	12 00
Edward Edwards, medicine	79 00
City of Everett, aid	74 35
Mary A. Fletcher, allowance	13 15
W. A. Flaherty & Son, burials	36 00
Fresh Pond Ice Co., ice	2 80
Charles F. Giles, groceries	844 48
Thomas Groom & Co., books and stationery	54 00
F. H. Grow, groceries	729 50
F. W. Gilbert, boots and shoes	29 25
Glines Express Co., expressing	45
W. A. Greenough & Co., directory	4 00
J. E. Giroux, milk	17 37
C. H. Goldthwaite & Co., linen hose	4 60
G. F. Harvey Co., medicine	30 46
Amount carried forward	\$13,772 95

Amount brought forward	\$13,772 95
J. B. Horton, burial, and board	27 43
City of Haverhill, aid	16 71
City of Holyoke, aid	2 75
C. R. King, groceries	97 50
H. L. Kyes, groceries	170 00
M. D. Lewis, groceries	256 50
M. D. Lovering, groceries	253 00
Howard Lowell & Son, carriage hire	15 50
Town of Lexington, aid	39 76
Mary A. Leonard, allowance	39 42
Massachusetts State Prison, hand bag	4 00
G. M. McHugh, copy holder	3 00
J. J. Manning, burial	20 00
James H. Maguire Co., groceries	315 00
City of Malden, aid	65 50
City of Medford, aid	348 80
Monroe Pharmacal Co., medicine	115 96
Mary Murray, board	78 20
Alfred E. Mann, burials	46 00
Massachusetts School for Feeble Minded, board	46 89
New England Telephone & Telegraph Co., service	104 36
City of Newton, aid	313 54
North Packing & Provision Co., groceries, Edith M. Nutt, board	96 00 104 30
Nickerson Home for Children, board	43 72
Town of Pepperell, aid	164 00
Frederick H. Perry, printing	33 00
Remington Typewriter Co., ribbons	1 50
Town of Rockland, aid	89 23
A. P. Rockwood, carriage hire	2 00
Town of Reading, aid	101 07
Town of Revere, aid	151 31
Catherine Smith, allowance	9 60
Mrs. Daniel Shea, board and clothing	37 00
Somerville Journal Co., printing	12 25
Hattie G. Sellon, board	52 17
Somerville Visiting Nursing Association, nursing	28 75
R. M. Sturtevant, groceries	951 00
Somerville Hospital, sick poor	2,079 27
Edward F. Stone, burial	10 00
Mattie E. Sabeau, board	41 00
F. Simon, groceries	52 00
Josephine Southward, board	10 71
Thorpe's Express, expressing	25
Hattie Thorndike, allowance	30 59
City of Worcester, aid	8 57
Washingtonian Home, board	50 00
Town of West Springfield, aid	47 00
Wellington-Wild Coal Co., fuel	862 67
Benjamin E. White, groceries	396 00
George W. Wood, groceries	112 00
York County Children's Aid Society, board	98 00
	\$21,827 73
Amount carried forward	\$21,827 73

Amount brought forward	\$21,827 73	
Service Transfers, from Soldiers' Relief account	99 85	
	\$21,727 88	
Refund: Lend-A-Hand Society, money re- funded	4 43	
		<u>\$21,723 45</u>

Poor Department, City Home.

CREDIT.

Appropriation		\$9,000 00
Contingent Fund account, amount trans- ferred	\$1,500 00	
balance transferred	448 15	
		1,948 15
		\$10,948 15

DEBIT.

(Expenditures.)

Cash, paid J. Foster Colquhoun, salary as warden	\$850 00
disbursements	71 40
Mrs. Catherine Colquhoun, salary as ma- tron	500 00
Jean M. Hutchins, clerical services	41 66
Sundry persons, farm help	1,358 93
Sundry persons, house help	1,167 37
William H. Ames & Co., produce	55 25
E. O. Arnold, carpet cleaning	5 01
Ames Implement & Seed Co., supplies	6 80
D. J. Bennett, harness supplies	5 00
Andrew Blyth, groceries	12 48
Boston Plate & Window Glass Co., glass. H. W. Bowers, clothing	5 68 3 05
Joseph Breck & Sons, farm supplies	109 02
John Briggs & Co., putty, etc.	24 03
Barrett Mfg. Co., pyxol	5 30
Barry Mfg. Co., oil suits	2 25
Henry Blewett & Son, bread	7 00
Brown-Durrell Co., shirts	12 75
Charles A. Blethen, stable supplies	5 60
Cambridge Ice Co., ice	45 35
Chapin Bros., potatoes	35 00
Chase & Sanborn, coffee, etc.	117 42
Henry N. Clark Co., range repairs	13 88
Cotter & Son, expressing	70
George W. Clatur Co., fish	7 72
Cambridge Gas Light Co., grate and tray, William Caldwell & Son, castor cups	1 00 1 50
C. D. Cobb & Bros., groceries	21 70
Kirkland H. Curtis, teaming	6 00
John H. Derby, repairing clock	1 00
Eastern Drug Co., medicine	18 48
Estabrook Coal Co., mare	150 00
Fox Bakery Co., bread	441 32
Farley, Harvey & Co., dry goods	27 77
Amount carried forward	\$5,137 42

Amount brought forward	\$5,137 42
Frost Garden Co., boar	15 00
Fottler, Fiske, Rawson Co., pots and pump	7 55
C. W. Goldthwaite, vinegar	8 10
C. H. Goldthwaite & Co., crutches	1 25
Gilman Express Co., expressing	12 05
H. E. Gustin Sons, oranges	2 25
Thomas J. Grey Co., seeds	85 09
Gillmore & Co., potatoes	15 00
Thomas Groom & Co., stationery	3 05
G. F. Gurney Co., sweepers	8 14
Glines Express Co., expressing	30
Grant Nail & Supply Co., belt and lace	3 04
Guiney Bros., expressing	90
C. D. Gallagher, potatoes and boxes	12 05
C. P. Holmes, market and tomato boxes	91 46
Henry S. Harris & Son, stock food	10 50
Percy A. Hall, medicine	137 66
Highland Coal Co., lime	21 47
F. J. Hopkins, groceries	112 91
Hovey & Co., seeds	2 45
A. H. Hews & Co., pots	18 50
Dr. William H. Hitchings, veterinary services	34 00
Haskell, Adams Co., molasses	20 71
George T. Johnson Co., paper	6 88
Jones, McDuffee & Stratton Co., crockery	9 59
Jordan, Marsh Co., kitchen ware and dry goods	67 83
A. C. Libby & Sons, index and file	6 37
W. E. A. Legg & Co., plants	6 00
William Kirkland, horse hire	16 00
Amos Keyes & Co., butter	80 43
Dr. A. E. Knight, teeth	4 00
Lord & Webster Co., hay	358 57
Loose-Wiles Biscuit Co., crackers	96 52
George W. Ladd, horseshoeing	42 45
T. E. Littlefield, lumber	99 23
Library Bureau, index cards	1 65
R. S. Lombard, grain	21 55
Charles S. Larrabee, pigs	15 00
Martin & Wood, sharpening tools	4 75
McGreenery & Manning, pipes and tobacco	53 40
J. C. McLean, crib	5 50
Massachusetts State Prison, shoes, brushes, horse clothing, etc.	185 35
Market Supply Co., boxes	2 80
Medford Street Market, pork	21 25
Nay & Taylor, ice cream	2 80
J. S. Newcomb Co., provisions	990 21
New England Mfg. Co., butterine	164 60
New England Telephone & Telegraph Co., service	46 11
North Packing & Provision Co., lard	6 00
Fulton O'Brion, grain	187 20
Amount carried forward	\$8,262 89

Amount brought forward	\$8,262 89	
Harry Ossman, repairing	4 45	
Paine Furniture Co., horse	275 00	
A. H. Proctor & Co., salt and oats	123 60	
Charles N. Page, dry goods	10 28	
Park & Pollard Co., dry mash	2 25	
Parry Brick Co., bricks	2 10	
W. E. Plumer & Co., hardware	7 90	
Proctor Bros. Grain Co., grain	153 75	
Phelps Bros., hay	69 28	
C. Augustus Proctor, fish	9 55	
Refuse Disposal Department, garbage	504 70	
Rockingham Milk Co., milk	5 00	
Reformatory for Women, clothing	15 00	
John B. Ruier, shoeing and repairs	24 15	
J. W. Roberts & Co., groceries	427 20	
John P. Squire & Co., shavings	4 75	
Somerville Journal Co., printing	2 75	
E. D. Sawyer Lumber Co., lumber	71 02	
Parke Snow, dry goods	78 91	
E. S. Sparrow & Co., hardware	8 06	
C. L. Stevens, groceries	270 54	
W. C. Stickle, papers	11 20	
B. S. Snow & Co., fish	32 09	
Charles T. Sullivan, harness work	7 00	
D. M. Smith, horse	225 00	
George H. Thayer, boots and shoes	33 20	
A. S. Tyler, milk	42 00	
T. F. & W. W. Taff, medicine	15 90	
Toothaker Bros., milk	25 00	
E. R. Tilton, horse hire	14 00	
Tyler Rubber Co., rubber goods	1 46	
West Disinfecting Co., disinfectant	6 00	
Whittier Woodenware Co., brooms	16 91	
William J. Wiley, hardware	69 54	
Washburn, Crosby Co., flour	10 20	
L. A. Wright, repairing	1 50	
I. B. Walker, bolts	20	
George A. Woodward, handles	82	
Whitcomb Metallic Bed Co., caster	2 50	
E. R. Whitman Co., chopping block	5 00	
Mitchell Wing Co., soap	12 00	
A. Young, cows	70 00	
	\$10,934 65	
Sewers Maintenance account, cement	13 50	
		\$10,948 15

Public Buildings Department, Maintenance City Home Buildings.

CREDIT.

Appropriation	\$2,300 00	
Maintenance West Somerville Branch Library Building account, amount transferred	140 00	
	\$2,440 00	
Excess and Deficiency account, balance transferred	2 29	
		\$2,437 71

DEBIT.

(Expenditures.)

Cash, paid labor	\$3 80
F. C. Ayer, lumber	19 51
Armstrong Bros., plumbing	4 36
James W. Benjamin, carpentering	112 00
Burbank & Ryder Varnish Co., paint	12 60
Cambridge Gas Light Co., gas	32 88
Jackson Caldwell & Co., shades	17 45
C. W. Cahalan, plumbing	56 42
Edison Electric Illuminating Co., lighting, ...	156 35
Empire Laundry Machinery Co., cyclin- ders and labor	36 33
Enterprise Rubber Co., rubber matting	44 00
Eastern Expanded Metal Co., metal lath- ing	3 07
Gerrard & Perry, laying lathing	10 00
Glines Express Co., expressing	75
J. J. Hurley & Co., repairing heating ap- paratus	56 07
S. D. Hicks & Son, roofing	290 00
Kinnear Gager Mfg. Co., metal ceiling	26 00
T. E. Littlefield, lumber	64 78
Charles F. Mills, carpentering	84 00
Arthur T. McGilvrey & Co., electrical work	19 75
Anthony O. Marinick, laying and scrap- ing floors	100 80
Newton & Dunbar, electrical work	50 73
J. T. Newton, electrical work	18 62
Pittsburg Plate Glass Co., glass	1 24
A. W. Phillips, brick work	13 75
F. M. Rogers & Co., whitening and paint- ing	200 00
George L. Robinson, painting	7 90
E. S. Sparrow & Co., hardware	17 03
Standard Charcoal Co., charcoal	16 20
Somerville Wood Working Co., lumber	155 62
Frederick B. Witherly, grate, etc.	10 38
William J. Wiley, plumbing	5 90
Wellington-Wild Coal Co., fuel	789 42
	\$2,437 71

City Home Addition.

CREDIT.

Balance from 1912	\$120 69
Building Public Buildings account, balance transferred	59
	\$120 10

DEBIT.

(Expenditures.)

Cash, paid Carlisle, Ayer Co., doors, etc.	\$25 30
J. J. Hurley & Co., final payment for in- stallation of heating system	94 80
	\$120 10

Somerville Hospital.

CREDIT.

Appropriation	\$5,000 00
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DEBIT.

(Expenditures.)

Cash, paid for support of sick poor	<u>\$5,000 00</u>
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SOLDIERS' BENEFITS.**Soldiers' Relief.**

CREDIT.

Appropriation	\$22,000 00
Soldiers' Burials account, amount transferred	400 00

	<u>\$21,600 00</u>
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Excess and Deficiency account, balance transferred	62 01
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	<u>\$21,537 99</u>
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DEBIT.

(Expenditures.)

Cash, paid sundry persons as per pay rolls	\$21,456 14
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Poor Department, Miscellaneous account, medicine furnished	99 85
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	<u>\$21,555 99</u>
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Refund: sundry persons, money not called for	18 00
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	<u>\$21,537 99</u>
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Military Aid.

CREDIT.

Appropriation	\$700 00
Excess and Deficiency account, balance transferred	251 00

	<u>\$449 00</u>
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DEBIT.

(Expenditures.)

Cash, paid sundry persons as per pay rolls	<u>\$449 00</u>
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State Aid.

CREDIT.

Appropriation	\$16,000 00
Excess and Deficiency account, balance transferred	966 50

	<u>\$15,033 50</u>
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DEBIT.

(Expenditures.)

Cash, paid sundry persons as per pay rolls	\$15,037 50
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Refund: sundry persons, money not called for	4 00
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	<u>\$15,033 50</u>
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Soldiers' Burials.

CREDIT.

Appropriation	\$500 00
Soldiers' Relief account, amount transferred	400 00
	\$900 00
Excess and Deficiency account, balance transferred	265 00
	\$635 00

DEBIT.

(Expenditures.)

Cash, paid John H. Dusseault, services as burial agent	\$28 00
John Bryant's Sons, burials	166 00
W. T. Gill, burial	48 00
John E. Kauler, burial	48 00
A. E. Long & Son, burial	48 00
W. F. McKenna & Son, burials	83 00
C. W. Messer, burial	48 00
Edward M. Nichols, burial	48 00
Edward J. Peltier, burial	35 00
H. A. Weir, burial	48 00
Francis M. Wilson, burial	35 00
	\$635 00

EDUCATION.**School Contingent.**

CREDIT.

Appropriation	\$32,000 00
Municipal Loan, amount appropriated	4,000 00
	\$36,000 00
Excess and Deficiency account, balance transferred	28 94
	\$35,971 06

DEBIT.

(Expenditures.)

Cash, paid Charles S. Clark, salary as superintendent of schools	\$3,499 60
disbursements	484 87
Justin W. Lovett, assistant to superintendent	1,311 00
Mary A. Clark, assistant	807 00
Mildred A. Merrill, assistant	659 00
Benjamin R. Jones, truant officer	1,356 00
disbursements	12 00
Hazel Flynn, clerical services	23 40
Elisabeth S. Webster, taking school census	53 90
Frank McCarthy, taking school census	46 94
Frank K. Maloney, taking school census	42 12
John F. Davis, Jr., taking school census	38 82
Francis J. Mahoney, taking school census, ...	37 66
Edward Coogan, taking school census	29 24
Amount carried forward	\$8,406 55

Amount brought forward	\$8,406 55
Albert F. Smith, taking school census	22 82
Mary A. Donovan, services at shower baths	52 38
Michael J. Mullaney, services at shower baths	51 00
Mary Ingraham, services at graduation	15 00
J. Albert Wilson, services at graduation	10 00
Oscar W. Short, services at graduation	10 00
Matthew C. Duggan, distributing even- ing school posters	7 00
Francis J. McGowan, moving supplies at high school	5 00
Albert C. McMenimen, moving supplies at high school	5 00
Jeremiah M. Brennan, unpacking sup- plies	5 00
F. B. Alexander, books	8 74
American Express Co., expressing	1 56
John Q. Adams & Co., books	7 00
American Book Co., books	1,282 09
D. Appleton & Co., books	321 11
Adams, Cushing & Foster, supplies	607 39
John A. Avery, disbursements	44 13
Allyn & Bacon, books	181 55
Atkinson, Mentzer & Co., books	73 49
J. A. Bremner & Co., supplies	1 00
Edward E. Babb & Co., books and sup- plies	5,528 26
F. J. Barnard & Co., binding book	752 36
Beck Duplicator Co., supplies	6 65
Milton Bradley Co., supplies	2,428 87
Brown-Howland Co., supplies	24 30
Caroline G. Baker, disbursements	4 00
Baker School Specialty Co., repairing	6 25
Baker & Adamson Chemical Co., sup- plies	12 60
Elizabeth J. Baker, disbursements	2 00
Mary H. Brown, disbursements	121 79
City of Boston, tuition	218 30
C. C. Birchard & Co., books	166 68
Frederick H. Brown, maps	17 00
Brown, Durrell Co., supplies	66 32
George R. Bascom, supplies	22 19
Laura J. Brooks, disbursements	1 90
Barbour, Stockwell Co., supplies	96
Bumpus & Cook, repairing	70 28
C. S. Binner Corp., printing	17 80
J. H. Brooks, supplies	1 80
Harold B. Blazo, charts	1 60
Mary G. Blackwell, disbursements	2 30
George I. Bowden, disbursements	8 91
M. D. Berlitz, books	20 45
Henry N. Clark Co., supplies	34 50
John Carter & Co., supplies	24 70
E. F. Chaffee, supplies	5 62
Chandler & Barber, supplies	137 65
Amount carried forward	\$20,823 85

Amount brought forward	\$20,823 85
Chandler & Farquhar, supplies	199 32
Cotter's Express, expressing	2 55
Chandler Shorthand Publishing Co., books	467 00
N. H. Crowell, supplies	41 86
Cotter & Son, expressing	63 11
Carter's Ink Co., supplies	73 56
Thomas J. Callahan & Co., printing	13 00
Century Co., books	12 00
Conant Bros. Co., supplies	3 25
E. T. Curtis Co., supplies	86 93
Columbia Graphophone Co., dictaphone, Cole & Townsend, charts	186 20
Chickering & Sons, use of piano	2 55
Jackson Caldwell Co., rent of piano	9 00
Cambridge Botanical Supply Co., sup- plies	12 50
Cambridge Gas Light Co., supplies	11 20
Central Scientific Co., supplies	2 00
Oliver Ditson Co., music	150 65
Decatur, Caddick Lumber Co., lumber	10 66
Dennison Mfg. Co., supplies	403 60
Andrew Dutton Co., supplies	2 50
A. L. Doe, disbursements	4 50
Davenport-Brown Co., supplies	7 61
Felix F. Daus Duplicator Co., supplies	37 35
Denton Bros., supplies	5 40
Dame, Stoddard Co., supplies	4 56
Dorchester Pottery Works, supplies	2 50
Edison Electric Illuminating Co., supplies, Eimer & Amend, supplies	4 80
Educational Publishing Co., books	3 25
Enterprise Rubber Co., supplies	124 50
John S. Emerson, disbursements	66 92
B. F. Elwell Glue Co., supplies	87
Joseph A. Ewart, disbursements	13 15
Fottler, Fiske, Rawson Co., supplies	6 58
Fisk Rubber Co., bolts, etc. . . .	2 50
Frost & Adams Co., supplies	1 05
Benjamin F. Freeman, supplies	114 09
Farley, Harvey & Co., cloth	190 90
S. B. & B. W. Fleisher, supplies	1 50
Furniture Mfg. & Artisan, books	48 40
M. Abbott Frazar Co., supplies	1 00
The Fairbanks Co., supplies	1 00
Ginn & Co., books	1 75
Girls' Trade Education League, books	18 60
Nelson Lewis Greene, books	2,199 48
Charles F. Giles, supplies	2 90
Gilman Square Fish Market, supplies	16 00
Albert Griffiths Saw Co., supplies	161 95
Glines Express Co., expressing	1 13
Joseph E. Greene Co., supplies	10 98
W. A. Greenough & Co., books	27 55
Grimmons, Bailey, Weston Co., supplies	2 40
Gilman Express Co., expressing	8 00
	5 00
	9 50
Amount carried forward	\$25,684 96

Amount brought forward	\$25,684 96
General Chemical Co., supplies	52 58
Gulf Refining Co., supplies	14 71
Clara M. Gale, disbursements	1 14
Benjamin C. Gruenberg, books	1 10
Harvard University, books	9 00
D. C. Heath & Co., books	258 98
Houghton Mifflin Co., books	162 04
J. L. Hammett Co., supplies	280 52
J. W. Howard, supplies	2 40
J. B. Hunter & Co., supplies	818 68
A. L. Haskell, printing	107 75
J. C. Howard, supplies	7 00
Hobbs & Warren, supplies	14 35
Otis A. Handy, printing	4 50
Hopkinson & Holden, supplies	25 44
Hill-Michie Co., use of auto	11 85
H. F. Hathaway, disbursements	16 65
Holtzer-Cabot Electric Co., supplies	5 95
Romeyn B. Hough, supplies	3 00
E. C. Hartshorn, supplies	1 50
William S. Howe, supplies	65
L. F. Holland, repairing	4 85
Jones, McDuffee & Stratton, supplies	11 24
Jaynes Drug Co., supplies	78 59
Jordan, Marsh Co., supplies	111 18
S. A. Johnson, disbursements	31 88
Kewaunee Mfg. Co., supplies	29 62
Kenney Bros. & Wolkins, supplies	220 51
A. H. Keen, services	88
Kee Lox Mfg. Co., supplies	6 70
Kny-Scheerer Co., supplies	8 52
John Lane Co., books	5 00
Logan, Johnson & Co., dishes	3 55
Lincoln Engraving Co., printing	6 00
Little, Brown & Co., books	13 59
E. L. Lovering, repairing	40 25
William Leavens & Co., supplies	140 65
J. A. Lyons & Co., books	4 72
Library Bureau, supplies	28 05
Lyons & Carnahan, books	2 51
Liquid Carbonic Co., supplies	3 50
Howard Lowell & Sons, carriage hire	7 00
Andrew J. Lloyd Co., supplies	85
D. C. McIntosh, books	89 62
Herman Meyer, supplies	71 08
Mitchell Mfg. Co., supplies	9 37
Middlesex County, board of truants	1,073 09
Charles E. Merrill Co., books	37 55
Martin & Wood, supplies	1 90
F. W. Martin Co., printing	219 00
City of Medford, tuition	47 01
E. M. Morse, disbursements	48 39
Morandi-Proctor Co., supplies	4 37
Charles E. Miller, supplies	8 00
Mitchell, Woodbury Co., supplies	173 53
Henry F. Miller Piano Co., piano	250 00
Amount carried forward	\$30,277 30

Amount brought forward	\$30,277 30
Machinery, books	4 00
Marine Biological Laboratory, supplies	13 85
Moore Bros. Co., supplies	9 00
B. F. Macey, supplies	6 93
B. L. Makepeace, supplies	2 55
New York Times, subscription	8 00
Neostyle Co., supplies	111 75
New England Telephone & Telegraph Co., service	213 68
National Case & Carton Co., supplies	16 00
New England Dressed Meat & Wool Co., supplies	1 60
New England Piano Co., supplies	58 75
Oliver Typewriter Co., supplies	80
Parker & Page Co., supplies	2 94
W. E. Plumer & Co., supplies	306 31
Frank Pergarde, supplies	5 34
Primary School Supply Co., supplies	4 62
H. L. Pilkington, supplies	1 55
Ella F. Rines, services	8 41
Remington Typewriter Co., repairing	13 50
A. P. Rockwood, carriage hire and use of horse	28 50
Reporter Press, printing	103 88
Rand, McNally & Co., maps	4 20
Renner's Express, expressing	10 90
Robertson & Nixon, insurance	78 00
Silver, Burdett & Co., books	130 90
Benjamin H. Sanborn & Co., books	156 66
Stone & Forsyth, supplies	19 01
Somerville Enterprise Publishing Co., printing	42 00
Somerville Journal Co., printing	1,085 96
William D. Sprague, disbursements	8 50
Suffolk Engraving & Electrotyping Co., printing	7 50
Singer Sewing Machine Co., machines	235 69
School Arts Publishing Co., books	47 20
School Board Journal, books	12 75
Shattuck & Jones, supplies	6 30
E. S. Sparrow & Co., supplies	6 00
Somerville Publishing Co., printing	243 35
Frank W. Seabury, disbursements	3 30
Stuart-Howland Co., supplies	59 16
Charles Scribner's Sons, books	5 19
Francis Supple, supplies	20 15
S. M. Spencer Mfg. Co., supplies	1 30
P. Sutherland & Co., supplies	15 23
F. H. Thomas Co., supplies	284 16
Mary C. Thurston, supplies	10 00
Toledo Cooker Co., supplies	17 74
Training School at Vineland, N. J., supplies	1 00
Teachers' College, Columbia University, books	2 15
S. N. Ufford & Son, supplies	18 00
Amount carried forward	\$33,731 56

Amount brought forward	\$33,731 56	
Underwood Typewriter Co., supplies	429 16	
Union Paste Co., supplies	7 80	
Martin E. Vorce, subscriptions	2 90	
Van Buskirk & Osborne Co., supplies	24 75	
Vocation Bureau, tuition	25 00	
Wadsworth, Howland & Co., supplies	77 39	
Whitney & Snow, supplies	45 97	
George M. Wadsworth, disbursements	13 89	
Wellington-Wild Coal Co., supplies	2 14	
World Book Co., books	4 65	
A. J. Wilkinson & Co., supplies	5 10	
John M. Woods & Co., supplies	1,454 67	
Mina J. Wendell, disbursements	2 60	
Whitcomb & Barrows, books	16 20	
F. S. Webster Co., stationery	3 04	
John W. Whitney, supplies	1 32	
Wright & Ditson, supplies	89 89	
Yawman & Erbe Mfg. Co., supplies	58 68	
	\$35,996 71	
Central Library account, books lost	2 65	
	\$35,999 36	
Refunds: City of Boston, tuition	\$14 30	
F. J. Mahoney, overpayment	14 00	
	28 30	
	\$35,971 06	

School Teachers' Salaries.

CREDIT.

Appropriation	\$306,000 00
Municipal Loan, amount appropriated	14,000 00
	\$320,000 00
High School, Furnishing and Equipment account, amount transferred	1,040 00
	\$318,960 00
Excess and Deficiency account, balance transferred	2 82
	\$318,957 18

DEBIT.

(Expenditures.)

Cash, paid school teachers' salaries	\$318,957 18
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Public Buildings Department, Maintenance School Buildings.

CREDIT.

Appropriation	\$69,000 00
Amounts transferred from the following accounts:—	
Commissioner of Public Buildings	\$50 00
Maintenance Police Building	350 00
Amount carried forward	\$400 00

Amount brought forward	\$400 00	
Maintenance Sewer Building	75 00	
Maintenance Municipal Buildings	100 00	
Contingent Fund	3,800 00	
		4,375 00
Cash, received insurance, damage to Girls' Industrial School		40 00
		\$73,415 00
Excess and Deficiency account, balance transferred		8 28
		\$73,406 72

DEBIT.

(Expenditures.)

Cash, paid janitors' salaries	\$27,767 14
Labor	1,165 30
Joseph Young, pension	344 04
Armstrong Bros., plumbing	90 81
American Express Co., expressing	3 16
F. C. Ayer, lumber	87 89
George A. Ayer, plumbing	543 82
John H. Adcock, plumbing	111 38
Ashton Valve Co., bubblers	21 60
American Metal Polish Co., putz cream	16 09
American Seating Co., castings	31 45
Buildings Care Co., cleaning windows	33 15
A. C. Barnard, repairing auto	1 05
Blake & Knowles Steam Pump Works, repairing	57 94
Benjamin's Express, expressing	65
D. J. Bennett, harness work	3 50
Edward H. Barter, repairing clocks	13 50
A. & E. Burton Co., dusters	124 20
Thomas D. Bennett, harness work	75
Blodgett Clock Co., repairing clocks	5 11
Charles E. Berry, repairing	30
Boston Varnish Co., varnish	52 80
D. F. Burke, labor and mason work on boilers	529 10
Boston Feather Duster Co., dusters	20 70
C. C. Bowles & Co., sewing machine	23 00
Baker School Specialty Co., repairing blackboards	9 00
Builders' Iron & Steel Co., steel work	490 00
Boston Cleaning Co., cleaning windows	10 20
Barrett Mfg. Co., disinfectant	28 86
Barnard & Burgess, repairing auto	60 63
M. J. Bowdren, gardening	148 75
Blanche L. Bradford, rent of barn for automobile	25 50
Harold L. Bond Co., trays and channel supports	7 00
J. A. Bremner & Co., painting	351 46
Burbank & Ryder Varnish Co., interior finish	21 00
James G. Beard, carpentering	80 00
Edward P. Brock & Co., frame for grate	7 50
Amount carried forward	\$32,288 33

Amount brought forward	\$32,288 33
M. P. Canfield, gardening	183 60
Cambridge Gas Light Co., gas	774 57
P. E. Carrigan Co., steam-heating system for Bingham school hall	307 52
L. E. Clayton, cheese cloth	8 25
Bernard S. Coddington, repairing clocks	20 25
Frederick R. Cutter, repairing clock	2 00
Jackson Caldwell & Co., furnishings	496 02
Charlestown Gas & Electric Co., gas	222 88
Carpenter-Morton Co., paints	39 08
H. E. Carlisle, wire mats	20 35
Mrs. Elizabeth Cusack, cleaning	148 50
C. W. Cahalan, plumbing	269 42
Cotter & Son, expressing	1 05
Conway's Express, expressing	85
John W. Cremen, weighing coal	26 00
James Duncan, reseating chairs	100 10
J. A. Durell, lock	50
Derby & Fish, repairing clocks	2 00
Davenport-Brown Co., wood	8 02
John H. Derby, repairing clock	5 00
H. W. Delaney, plumbing	10 88
Thomas Dowd, plastering, etc.	477 10
R. W. Doe, new grate and labor	14 25
Edison Electric Illuminating Co., lighting	5,180 47
J. H. Edwards, repairing irons	21 15
Enterprise Rubber Co., gaskets	51 60
Fred W. Farrar, repairing clocks	43 50
F. C. Fuller & Co., hardware	50 28
James H. Fannon, granolithic work	1,570 06
A. C. Gordon, painting sign	2 00
Grant Nail & Supply Co., lace	9 65
Glines Express Co., service	44 18
C. E. Gosse, repairing roof	94 03
Gilman Express Co., expressing	9 25
Eugene Girrior, disbursements	7 55
J. H. Gerlach Co., wood	13 29
Gray & Turner, insurance on automobile	49 00
Joseph E. Greene Co., electrical supplies	7 02
C. P. Hicks Co., interior painting	258 11
William S. Howe, hardware	30 56
Hill-Michie Co., storage, etc.	137 03
Charles H. M. Hunnewell, plumbing	133 24
Hinkley Rendering Co., soap powder	61 96
J. J. Hurley & Co., repairing heating apparatus	64 84
Edgar O. Hunt, hardware	4 14
H. D. Hicks & Son, repairing roofs	498 50
William Hall & Co., repairing door checks	2 25
Hosmer & Wedgwood, insurance on horse and carriage	7 50
Hemeon Bros., repairing and building fence	156 24
Hoyt Co., window shades	185 50
Hodge Boiler Works, boiler work	467 73
Amount carried forward	\$44,587 15

Amount brought forward	\$44,587 15
Heywood Bros., inkwells	4 13
International Engineering Works, re- pairing boilers	5 05
H. James & Son, soap	2 00
Jenkins Bros., gauge glasses	60
Johnson Service Co., repairing	89 10
John H. Kelley, disbursements	20 00
Harlan P. Knight, disbursements	35
Dennis E. Kelley, buggy, etc.	35 00
James E. Kenney, carpentering	75 44
E. S. Kearney Co., sand and sawdust	46 05
Kenney Bros. & Wolkins, school furnish- ings	131 64
E. & F. King & Co., soda ash	10 08
Clara M. Kenney, cleaning	32 39
John Kennedy, plastering	272 20
Edwin C. Lewis, electrical supplies	12 71
Leavis & Doherty, plumbing	554 46
George W. Ladd, repairing rake, etc.	1 25
Howard Lowell & Son, board of horse	341 00
P. S. Lynch, plumbing	14 16
J. E. Locatelli & Co., carpentering and mason work	222 65
T. E. Littlefield, lumber	126 67
C. A. Legallee, plumbing	5 78
William Little & Son, gardening	20 25
J. Edward L. McLean, carpentering	1,518 86
C. W. H. Moulton Co., stepladder, etc.	31 75
A. M. Morton & Co., valves, etc.	4 96
Arthur T. McGilvray & Co., electrical work	144 56
William J. McCarthy Co., labor	2 50
G. F. McKenna & Son, labor and teams	979 80
George W. Manning, labor on flag poles	100 75
Walter T. March, repairing furniture	18 36
Charles F. Mills, carpentering	192 00
McKenney & Waterbury Co., electrical supplies	37 75
Martin & Wood, keys, electrical work, etc.	268 76
P. W. Merrill Co., painting and repair- ing screens	16 75
J. C. McLean, folding chairs	37 50
R. C. L. Matting Co., mats	13 80
Daniel McIntire, gardening	34 65
T. F. McGann & Sons Co., refinishing tubing	12 45
Moroney's Express, expressing	1 10
Thomas F. Moroney, expressing	2 70
Mattie McCrossen, settlement for in- juries	25 00
J. Edward L. McLean, carpentering	370 77
J. T. Newton, electrical work	12 78
Norton Door Check Co., supplies	34 25
New England Telephone & Telegraph Co., service	511 60
Amount carried forward	\$50,983 51

Amount brought forward	\$50,983 51
Newton & Dunbar, electrical work	163 39
Neemes Bros., shakers for grates	9 30
Patrick J. O'Neil, gardening	13 50
James W. O'Neil, plumbing	9 93
John F. O'Brien, weighing coal	24 00
W. E. Plumer & Co., hardware	24 98
A. W. Phillips, mason work	417 88
Powers Regulator Co., repairing tempera- ture regulator	11 45
Pittsburg Plate Glass Co., plate glass	220 27
W. H. Pembroke, repairing boilers	29 02
A. M. Pride, carpentering	67 90
Pigeon-Fraser Hoihow Spar Co., flag pole, etc.	85 05
Relay House, dinners	6 00
John B. Rufer, iron	11 25
F. M. Rogers & Co., painting	667 00
Roberts Iron Works Co., boiler plates	5 07
George L. Robinson, painting	219 60
Ella F. Rines, cleaning	6 63
Renner's Express Co., expressing	12 35
School Board Journal, subscription	1 00
City of Somerville, grading street	117 56
City of Somerville, sidewalk assessment	54 05
B. Y. Snow, cleaning powder	3 60
P. J. Sullivan Co., mason work, etc.	63 50
James D. Sharkey, painting automobile	25 00
Charles R. Simpson, veterinary services	14 50
W. A. Snow Iron Works, furnishings, and erecting fence	184 00
P. Sutherland & Co., oil	30 40
Shepard, Clark Co., baskets and brushes	251 86
E. S. Sparrow & Co., hardware	252 76
Daniel L. Shepard, carpentering and plas- tering	1,466 25
Daniel Sullivan, oil	26 85
E. D. Sawyer Lumber Co., lumber	284 79
B. F. Sturtevant Co., repairing engine	24 53
P. J. Sullivan, excavating and mason work, ...	331 09
Standard Charcoal Co., charcoal	21 00
Harry Tobin, horseshoeing	32 50
Thorpe's Express, expressing	25
Dr. C. Clarke Towle, medical attendance, ...	3 00
Thompson-Durkee Co., bubbler tips	6 00
Underhill Hardware Co., hardware	200 95
Arthur W. Walker, repairing clock	3 50
Waiworth Mfg. Co., repairing pipes, etc.	52 72
Western Electric Co., switches	4 99
Whitney & Snow, hardware	23 17
H. W. Waite Co., dust layer, and disin- fectant	104 71
Asahel Wheeler Co., paint	126 52
Wellington-Wild Coal Co., fuel	16,516 93
Mrs. M. J. Whitney, mending flags	12 00
Henry A. Wheeler & Co., ensigns	56 55
Frederick B. Witherly, castings	11 22
Amount carried forward	\$73,295 83

Amount brought forward	\$73,295 83	
Chancey White, labor	1 40	
Waldo Bros., supplies	16 40	
L. A. Wright, bolts	2 00	
	\$73,315 63	
Highways Maintenance account, setting trees and moth extermination	44 86	
Water Maintenance account, gasoline, and repairing service pipe	52 23	
	\$73,412 72	
Refund: Thompson Desk Co., bill paid twice	6 00	
		<u>\$73,406 72</u>

Bennett School Addition.

CREDIT.

Balance from 1912	\$166 71
Balance to credit of account, 1914	<u>166 71</u>

S. Newton Cutler School.

CREDIT.

Balance from 1912	\$5,744 38
Balance to credit of account, 1914	<u>1,269 79</u>
	\$4,474 59

DEBIT.

(Expenditures.)

Cash, paid Boston Varnish Co., on orders A. B. Murdough	\$133 00
A. L. Bacon, on orders A. B. Murdough, ...	50 00
George J. Barker, on orders A. B. Mur- dough	134 18
Chandler & Barbour, on orders A. B. Murdough	275 00
Edison Portland Cement Co., on orders A. B. Murdough	174 66
Eagle Cornice & Skylight Works, on orders A. B. Murdough	265 54
Henry F. Farrow, on orders A. B. Mur- dough	50 00
Glidden Brick Co., on orders A. B. Mur- dough	80 00
Hub Wire Cloth & Wire Works Co., on orders A. B. Murdough	190 00
Estate of John Harrington, on orders A. B. Murdough	108 65
A. Johanson & Co., on orders A. B. Mur- dough	16 50
Albert B. Murdough, on account of con- tract for constructing building	1,972 06
P. J. Sullivan, on account of contract for heating and ventilating system	600 00
John Silk, on orders A. B. Murdough	375 00
William E. Thumith, on orders A. B. Murdough	50 00
	<u>\$4,474 59</u>

S. Newton Cutler School, Grading Land.

CREDIT.

Appropriations, from Funded Debt, 1913	\$1,300 00
Building Public Buildings account, amount transferred	236 10
	\$1,063 90

DEBIT.

(Expenditures.)

Cash, paid James H. Fannon, grading and re-surfacing	\$1,012 44
Leavis & Doherty, erecting iron-pipe fence	51 46
	\$1,063 90

Schoolhouses, Additional Window Space.

CREDIT.

Balance from 1912	\$30 34
Building Public Buildings account, amount transferred	30 34

Bell School, Additional Window Space.

CREDIT.

Appropriations, from Funded Debt, 1913	\$1,200 00
Building Public Buildings account, amount transferred	11 47
	\$1,188 53

DEBIT.

(Expenditures.)

Cash, paid J. E. Locatelli Co., installing twelve new windows	\$1,188 53

Bingham School, Constructing Hall.

CREDIT.

Appropriations, from Funded Debt, 1913	\$2,000 00
Building Public Buildings account, amount transferred, ...	49 54
	\$1,950 46

DEBIT.

(Expenditures.)

Cash, paid labor	\$4 00
S. D. Hicks & Son, sky lights	310 00
J. Edward L. McLean, carpentering	1,533 60
Martin & Wood, electrical work	88 88
John K. Wells, installing dampers	13 98
	\$1,950 46

High School Addition.

CREDIT.

Balance from 1912	\$124,248 33
Balance to credit of account, 1914	10,630 35
	\$113,617 98

DEBIT.

(Expenditures.)

Cash, paid American Express Co., express- ing	\$ 85	
Armstrong Bros., plumbing	1,192 04	
W. B. Brown & Co., plumbing, etc.	434 85	
Buildings Care Co., cleaning floors, win- dows, etc.	120 35	
Alice I. Crawford, copying letters, etc.	11 95	
Chandler & Farquhar Co., wire	47	
Gilman Express Co., expressing	5 75	
Joseph E. Greene Co., electrical supplies	539 67	
Globe Newspaper Co., advertising	3 30	
S. D. Hicks & Co., copper	14 80	
Kilham & Hopkins, professional services to mayor in preparing plans	100 00	
B. L. Makepeace, drawing materials	17 45	
G. F. McKenna & Son, teaming	63 00	
J. T. Newton, electrical work	2,381 32	
Charles H. Sanborn, on account of con- tract, heating and ventilating systems	1,530 00	
Walworth Mfg. Co., saw blades, etc.	2 18	
Walsh Bros., on account of contract	101,200 00	
Harry E. Warren, services as architect	6,000 00	
		<u>\$113,617 98</u>

High School Addition, Furnishing and Equipment.

CREDIT.

Appropriations, from Funded Debt, 1913	\$14,000 00
School Teachers' Salaries account, amount transferred, ...	1,040 00
	<u>\$15,040 00</u>
Balance to credit of account, 1914	2,909 25
	<u>\$12,130 75</u>

DEBIT.

(Expenditures.)

Cash, paid labor	\$310 71
F. C. Ayer, lumber	206 19
American Seating Co., furniture	972 00
Atlantic Clock Co., transformer battery set	75 00
W. B. Brown & Co., plumbing	478 74
Jackson Caldwell & Co., furnishings	356 85
Cambridge Gas Light Co., gas forge	93 00
S. H. Couch Co., electrical supplies	924 35
Central Scientific Co., laboratory equip- ment	285 92
Eimer & Amend, electric oven	50 00
Glines & Co., expressing	11 00
Joseph E. Greene Co., electrical supplies	1,250 66
H. J. Harwood's Sons, portable folding chairs	2,315 25
Kenney Bros. & Wolkins, furniture	2,385 55
William Leavens & Co., mirror and tables, ...	76 20
Frank M. Moore, bench legs	66 00
Amount carried forward	<u>\$9,857 42</u>

Amount brought forward	\$9,857 42	
T. F. McGann & Sons Co., labor polish- ing lacquering	5 85	
B. L. Makepeace, drawing instruments .	112 00	
J. T. Newton, electrical work	1,282 03	
Shepard, Clark Co., waste baskets . . .	23 52	
Richards & Co., manual training sup- plies	225 82	
E. S. Sparrow & Co., hardware	14 56	
West & Dodge, machinery, and erecting same	162 50	
John M. Woods & Co., lumber	77 05	
Underwood Typewriter Co., typewriters .	370 00	
		<u>\$12,130 75</u>

School Buildings, Fire Exits.

CREDIT.

Balance from 1912	\$2,322 34
Building Public Buildings account, amount transferred .	167 30
	<u>\$2,155 04</u>

DEBIT.

(Expenditures.)

Cash, paid Builders' Iron & Steel Co., in- stalling iron stairs and fire exit in Forster school	\$660 00
Daniel L. Shepard, carpentering and mason work on iron stairs in Forster school, etc.	1,495 04
	<u>\$2,155 04</u>

Central Heating Plant.

CREDIT.

Appropriations, from Funded Debt, 1913	\$30,000 00
Balance to credit of account, 1914	9,584 00
	<u>\$20,416 00</u>

DEBIT.

(Expenditures.)

Cash, paid Alice I. Crawford, copying heat- ing plant specifications	\$18 90
Jeremiah J. Hurley, installing boilers and piping	13,400 00
Johnson Service Co., installing automatic control system	400 00
Martin & Clark, roofing	42 00
B. L. Makepeace, blue prints	5 10
Charles H. Sanborn, installing heating and ventilating system	6,550 00
	<u>\$20,416 00</u>

Public School Trust Funds, Income.

CREDIT.

Balance from 1912	\$125 00
Income from invested funds	100 00
	\$225 00
Balance to credit of account, 1914	205 00
	\$20 00

DEBIT.

(Expenditures.)

Cash, paid J. D. Brown, books	<u>\$20 00</u>
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LIBRARIES.**Public Library Construction.**

CREDIT.

Balance from 1912	\$19,978 29
Received from Andrew Carnegie	75,000 00
	\$94,978 29
Balance to credit of account, 1914	4,408 07
	\$90,570 22

DEBIT.

(Expenditures.)

Cash, paid American Express Co., express- ing	\$1 30
Jackson Caldwell & Co., furnishings	845 50
J. L. Douglas & Co., roofing tile	15 00
Herbert W. Doten, shelving	5,373 00
Derby Desk Co., furniture	1,734 75
Edison Electric Illuminating Co., under- ground lighting system	241 80
Glines & Co., expressing	15
Kennedy & Peterson Construction Co., on account of construction of building	69,726 60
Pettingell-Andrews Co., electric fixtures	1,936 40
Snead & Co., iron works, bookracks	7,543 20
Edward L. Tilton, architect	3,152 52
	\$90,570 22

Central Library.

CREDIT.

Appropriation	\$21,000 00
Municipal Loan, amount appropriated	4,000 00
	\$25,000 00

DEBIT.

(Expenditures.)

Cash, paid Drew B. Hall, salary as librarian	\$2,750 00
disbursements	55 20
Nellie M. Whipple, assistant librarian	911 14
disbursements	40 80
Amount carried forward	\$3,757 14

Amount brought forward	\$3,757 14
Esther M. Mayhew, cataloguer	700 00
Bessie L. Duddy, librarian secretary	650 00
disbursements	1 30
Gertrude F. Root, assistant	393 55
Anna L. Stone, assistant	657 50
Sundays	6 00
Zoe E. Nelson, assistant	469 68
Susan W. Curtis, assistant	203 05
disbursements	1 30
Juliana Donovan, assistant	238 07
Edna C. Woodbury, assistant	519 20
disbursements	1 30
Anna B. Truesdale, assistant	367 00
disbursements	1 30
Louise M. Vinal, assistant	27 68
Mabel E. Bunker, assistant	225 00
Sundays	73 50
Mary S. Woodman, assistant	651 50
Marion Lovis, assistant	641 24
disbursements	24 71
A. Myrtle Merrill, assistant	601 50
A. Lisette Parker, assistant	479 96
Helen Spear, assistant	73 84
Ernestine T. Conway, assistant	14 18
Ethel Nute, assistant	19 56
Sundays	7 50
Bessie S. Cobb, assistant	7 50
Sundays	9 00
Kate H. Fogarty, assistant	12 50
Nasra Odeh, revising	63 26
Laura L. Brooks, assistant	99 26
Mary Morgan, revising	368 05
Alice M. Hill, revising	23 31
Annise B. Kane, assistant	415 61
Mabel Williams, assistant	425 00
Frances R. Coe, revisor	1,175 00
Ruth B. McLean, revisor	172 87
Helen P. Smith, revising	69 03
Elizabeth P. Ela, revising	69 41
Lucy B. Crain, supervisor	450 00
Mildred E. Nolan, revising	18 00
Esther W. Shaw, assistant	20 25
Rose Greenberg, assistant	28 80
Nectar M. Eksergian, assistant	19 20
Lucinda F. Spofford, assistant	14 17
Ruby G. White, assistant	12 06
Joseph K. Kelleher, attendant	162 00
Hugh E. Maguire, attendant	292 00
Louis T. O'Day, attendant	30 00
Edgar L. Kaula, attendant	53 40
Sundays	17 10
Richard Barlow, attendant	129 31
Robert L. Stevenson, attendant	52 14
Richard J. Trum, attendant	79 85
Gordon Hall, attendant	263 07
Frank C. Stackpole, attendant	57 68
Archie Giroux, attendant	17 56
Amount carried forward	\$15,432 95

Amount brought forward	\$15,432 95
Albert Howard, Jr., attendant	90 68
Holland Rooney, attendant	7 50
Frank J. Dooling, Jr., attendant	32 48
Joseph P. Fox, attendant	14 03
Allen F. Higgins, attendant	48 09
Warren L. Adams, attendant	15 90
Mary L. Gormley, attendant	71 00
Walter S. Dickson, attendant	37 13
William J. Hession, attendant	46 73
Alice M. L. Patterson, attendant	8 18
Lawrence H. Gerritson, attendant	32 00
Andrew E. Hanni, attendant	18 00
Ruth Sawyer, attendant	2 70
Marion Hunt, attendant	4 20
Grace Boothby, attendant	3 60
Robert Appleton Co., books	6 00
American Express Co., expressing	28 46
American Library Association	5 00
American Association for Highway Im- provement, book	1 00
American Association of Instruction in Poultry Husbandry, book	1 50
American Library Association Publishing Board, book	16 69
American City Bureau, books	2 50
Blythebourne Publishing Co., book	2 71
M. T. Bird & Co., design book plate	18 75
Boston Book Co., periodicals	17 20
Boston Paste Co., paste	2 20
Brown, Howland Co., cards, etc. . . .	228 74
R. R. Bowker Co., books	13 16
F. J. Barnard & Co., binding	84 59
N. J. Bartlett & Co., books	2 70
Cotter & Son, expressing	2 05
W. B. Clarke Co., books	16 10
Cambridge Ice Co., ice	49 50
Commonwealth of Massachusetts, copies of acts	3 50
Carter, Rice Co., paper	12 00
E. M. Cox, periodicals	1 75
DeWolfe & Fiske Co., books	4,128 91
W. J. Dobinson Engraving Co., repro- duction of plans	6 60
Dennison Mfg. Co., labels	1 82
Essex Institute, books	5 00
Charles Evans, books	15 00
Encyclopedia Press, books	5 00
Elm Tree Press, books	1 00
Fitzherbert & Wing, newspapers	26 34
Gaylord Bros., adhesive paper	75
Girls' Trade Education League, books	3 55
W. A. Greenough & Co., books	12 00
Thomas Groom & Co., supplies	129 82
Globe Stamp Works, stamps and repairs	51 35
Herman Goldberger, periodicals	835 45
Gilman's Express Co., expressing	89 35
Amount carried forward	\$21,693 21

Amount brought forward	\$21,693 21
Glines & Co., expressing	126 30
L. A. E. Harding, agency	37 80
Houghton Mifflin Co., books	5 75
H. R. Huntting Co., books	144 40
Hobbs & Warren, supplies	3 50
J. W. Howard, wreaths	3 75
Home Correspondence School, book . .	1 35
Harvard University, periodical	3 00
Mary A. Haley, books	4 50
Harper & Bros., books	18 00
International Text Book Co., book . .	4 00
Frederick Keppel & Co., periodicals . .	80
Charles Kallmeyer Publishing Co., books,	1 00
W. E. Lackey, newspapers	22 92
Little, Brown & Co., books	13 81
George E. Littlefield, lumber	4 00
William Leavens & Co., furniture . . .	5 70
Library of Congress, catalogue cards .	500 00
Lexington Historical Society, book . .	7 00
Library Bureau, celluloid dates . . .	2 03
Lethrop, Lee & Shepard Co., books . .	20 48
Henry Malkan, books	9 50
Macmillan Co., books	5 00
Mills & Boon, books	3 00
Missionary Education Movement, books .	10 50
New England Telephone & Telegraph Co., service	73 08
National Municipal League, periodicals .	5 00
National Education Association, mem- bership	2 00
Nangle Bros., periodicals	1 25
Old Corner Book Store, books	15 55
Office, Bank & Library Co., catalogue keys	2 50
G. P. Putnam's Sons, books	4 87
Publishers' Weekly, periodical	2 00
Theodore Presser Co., periodical . . .	1 00
Ritter & Flebbe, books	113 04
Royal Typewriter Co., rent of machine, and supplies	14 75
Robertson & Nixon, insurance	191 25
Rose Bindery, binding music	54 75
Russell Sage Foundation, books	1 50
Robey-French Co., trimmer	1 85
Schoenhof Book Co., books	5 40
Charles Scribner's Sons, books	12 15
Somerville Journal Co., printing	325 38
A. Storrs & Bement Co., stationery . .	56 28
Stone & Forsyth, supplies	86 54
Sprague & Hathaway, frames	84
Howard J. Savage, Treasurer, periodical .	1 00
Special Libraries Association, periodical .	2 00
Sampson & Murdock Co., books	6 50
Somerville Publishing Co., printing . .	50 15
Somerville Post Office, postage	53 08
C. W. Thompson & Co., music	21 32
University of Chicago Press, periodicals .	7 31
Amount carried forward	\$23,763 64

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Amount brought forward	\$23,763 64	
Vocation Bureau, books	80	
Samuel Ward Co., account books	4 85	
F. S. Webster Co., supplies	16 28	
H. W. Wilson Co., books	18 00	
John H. Williams, books	1 50	
L. A. Wells, binding books	1,198 19	
Zion's Herald, periodical	1 25	
	\$25,004 51	
City Clerk's Department account, type- writer ribbons	1 29	
	\$25,005 80	
Service Transfers, from sundry accounts	5 80	
		\$25,000 00

Public Buildings Department, Maintenance Central Library.

CREDIT.

Appropriation	\$3,600 00	
Maintenance Fire Buildings account, amount transferred, ...	250 00	
	\$3,350 00	
Excess and Deficiency account, balance transferred	23	
		\$3,349 77

DEBIT.

(Expenditures.)

Cash, paid janitors' salaries	\$1,293 86	
Labor	43 00	
George A. Ayer, plumbing	4 65	
F. C. Ayer, lumber	11 61	
Cambridge Gas Light Co., gas	31 76	
M. P. Canfield, gardening	7 50	
Edison Electric Illuminating Co., light- ing	1,149 62	
Fred W. Farrar, repairing clocks	2 00	
S. D. Hicks & Son, roofing	175 00	
J. J. Hurley & Co., repairing boiler	6 73	
Martin & Wood, electrical work	9 90	
George L. Robinson, painting	5 00	
Daniel Sullivan, oil	60	
E. S. Sparrow & Co., hardware	6 50	
Underhill Hardware Co., hardware	1 05	
Wellington-Wild Coal Co., fuel	597 21	
Whitney & Snow, rope	75	
Walworth Mfg. Co., gas supplies	38	
	\$3,347 12	
Water Maintenance account, repairing trench	2 65	
		\$3,349 77

West Somerville Branch Library.

CREDIT.

Appropriation	\$6,000 00
Excess and Deficiency account, balance transferred	10
	\$5,999 90

DEBIT.

(Expenditures.)

Cash, paid Lucy B. Crain, branch librarian, disbursements	\$399 88
Gertrude F. Root, branch librarian	40 80
Mabel Williams, assistant	331 49
Bessie S. Cobb, assistant	225 00
disbursements	594 15
Ruth S. Fales, assistant	1 30
Myrtle Nicholson, assistant	484 96
Mabel E. Bunker, assistant	484 96
Susan W. Curtis, assistant	425 00
Nellie M. Whipple, assistant	32 92
Lucinda F. Spofford, assistant	38 84
Marion Parker, attendant	1 50
Beulah C. Church, attendant	36 90
Elsie Abrams, attendant	54 75
Ronald Moore, attendant	7 80
Harold Ruggles, attendant	125 55
Arline Maxwell, attendant	66 98
Joseph K. Kelleher, attendant	17 48
Della Savary, attendant	54 00
Beatrice Wilson, attendant	10 00
Ruth Sawyer, attendant	12 15
Dorothy Hopkins, attendant	2 25
Hazel Moore, attendant	21 78
N. A. Briggs, pencil pointer	41 00
W. B. Clarke Co., books	5 00
Cambridge Ice Co., ice	6 65
DeWolfe & Fiske Co., books	6 27
Herman Goldberger, periodicals	1,556 85
W. A. Greenough & Co., books	297 15
Thomas Groom & Co., supplies	8 00
H. R. Huntting Co., books	21 55
Home Correspondence School, books	78 46
Little, Brown & Co., books	2 25
Lewis Electrical Supply Co., electric stove	1 20
Library Bureau, supplies	4 50
McDevitt-Wilson, books	11 50
New England Telephone & Telegraph Co., service	7 45
National Short Ballot Organization, book, Old Corner Book Store, books	36 09
A. Storrs & Bement Co., supplies	90
Sampson & Murdock Co., books	5 00
Leslie H. Steele, newspapers	1 00
Howard J. Savage, treasurer, periodical	6 50
West Somerville Post Office, postage	32 66
C. W. Thompson & Co., music	1 00
L. A. Wells, binding books	42 48
H. W. Wilson Co., books and periodicals, ...	6 36
	336 15
	13 49
	\$5,999 90

\$5,999 90

**Public Buildings Department, Maintenance West Somerville
Branch Library.**

CREDIT.

Appropriation	\$1,800 00
Maintenance City Home Buildings account, amount transferred	140 00
	\$1,660 00
Excess and Deficiency account, balance transferred	22 84
	\$1,637 16

DEBIT.

(Expenditures.)

Cash, paid janitors' salaries	\$756 00
Labor	7 60
M. P. Canfield, gardening	25 50
Derby & Fish, repairing clock	1 00
Edison Electric Illuminating Co., lighting	357 46
Gray & Turner, boiler insurance	2 81
Charles H. M. Hunnewell, plumbing	4 16
Jordan, Marsh Co., cork carpet	180 00
E. S. Kearney Co., sawdust	25
George L. Robinson, painting	9 40
E. S. Sparrow & Co., hardware	3 20
Somerville Wood Working Co., making and erecting bookcase	60 00
Wellington-Wild Coal Co., fuel	229 78
	\$1,637 16

East Somerville Branch Library.

CREDIT.

Appropriation	\$2,500 00
Excess and Deficiency account, balance transferred	55
	\$2,499 45

DEBIT.

(Expenditures.)

Cash, paid Edith B. Hayes, branch librarian, disbursements	\$700 00
Ruby G. White, assistant	40 80
disbursements	582 09
Susan W. Curtis, assistant	1 30
Alice A. Meehan, assistant	173 51
Marion Towle, assistant	30 53
Joseph K. Kelleher, attendant	48 84
Marion Hunt, attendant	48 00
Grace Boothby, attendant	7 80
DeWolfe & Fiske Co., books	6 60
Globe Stamp Works, stamps	628 43
Thomas Groom & Co., supplies	1 50
W. A. Greenough & Co., books	5 00
H. R. Hunting Co., books	4 00
Lewis Electric Supply Co., electric stove, Library Bureau, oak tray	38 87
	4 50
	1 50
Amount carried forward	\$2,323 27

Amount brought forward	\$2,323 27	
McDevitt-Wilson, books	2 35	
Nangle Bros., newspapers	14 25	
New England Telephone & Telegraph Co., service	27 50	
Somerville Post Office, postage	21 24	
H. W. Wilson Co., books	2 00	
L. A. Wells, binding	108 84	
		\$2,499 45

**Public Buildings Department, Maintenance East Somerville
Branch Library.**

CREDIT.

Appropriation	\$800 00	
Maintenance Bathhouse account, amount transferred	100 00	
	\$700 00	
Excess and Deficiency account, balance transferred	57 15	
	\$642 85	

DEBIT.

(Expenditures.)

Cash, paid janitors' salaries	\$251 45	
Labor	3 10	
Edison Electric Illuminating Co., lighting, ...	49 90	
Jordan, Marsh Co., rug, burlap, etc.	11 20	
F. W. Leeman, repairing chairs	75	
Estate of Safrona P. Roberts, rent of rooms	260 00	
George L. Robinson, painting	5 00	
Underhill Hardware Co., hardware	30	
Wellington-Wild Coal Co., fuel	61 15	
	\$642 85	

Union Square Branch Library.

CREDIT.

Appropriation	\$2,500 00	
Excess and Deficiency account, balance transferred	95	
	\$2,499 05	

DEBIT.

(Expenditures.)

Cash, paid Lucinda F. Spofford, branch librarian	\$700 00	
disbursements	40 80	
Ethel M. Nute, assistant	576 44	
disbursements	1 30	
Juliana Donovan, assistant	158 63	
Ruby G. White, assistant	11 50	
Ruth Alexander, attendant	7 05	
Velma Zeigler, attendant	43 96	
Elsie Abrams, attendant	16 74	
Joseph K. Kelleher, attendant	48 00	
Agnes C. Riley, attendant	15 98	
Edna L. Savary, attendant	4 81	
Amount carried forward	\$1,625 21	

Amount brought forward	\$1,625 21	
Bertha C. Mellett, attendant	6 23	
E. M. Coc, periodicals	7 00	
DeWolfe & Fiske Co., books	679 82	
Gaylord Bros., binders	14 10	
Thomas Groom & Co., ink	75	
W. A. Greenough & Co., books	4 00	
Globe Stamp Works, stamps	1 00	
H. R. Hunting Co., books	45 72	
Library Bureau, periodical	2 00	
Lewis Electric Supply Co., electric stove	4 50	
George V. McCauley, newspapers	10 50	
McDevitt-Wilson, books	15 65	
New England Telephone & Telegraph Co., service	27 84	
Somerville Post Office, postage	21 24	
H. W. Wilson Co., books	2 00	
L. A. Wells, binding	31 49	
		<u>\$2,499 05</u>

Public Buildings Department, Maintenance Union Square Branch Library.

CREDIT.

Appropriation	\$900 00
Excess and Deficiency account, balance transferred	2 38
	<u>\$897 62</u>

DEBIT.

(Expenditures.)

Cash, paid janitors' salaries	\$397 13
Labor	5 50
Jackson Caldwell & Co., carpeting and shades	233 63
Edison Electric Illuminating Co., lighting	48 45
F. W. Merrill Co., repairing and painting screens	19 50
Martin & Wood, cord	50
W. E. Plumer & Co., hardware	60
George L. Robinson, painting	1 00
Wellington-Wild Coal Co., fuel	191 31
	<u>\$897 62</u>

PUBLIC LIBRARY TRUST FUNDS.

Public Library, Isaac Pitman Fund, Income, Art.

CREDIT.

Balance from 1912	\$176 41
Cash, income from invested funds	90 14
	<u>\$266 55</u>
Balance to credit of account, 1914	6 88
	<u>\$259 67</u>

DEBIT.

(Expenditures.)

Cash, paid for books and pictures:—

Central Library	\$256 07
West Somerville Branch Library	3 60

\$259 67
Public Library, Isaac Pitman Fund, Income, Poetry.

CREDIT.

Balance from 1912	\$46 28
Cash, income from invested funds	22 54

\$68 82

Balance to credit of account, 1914	1 14
--	------

\$67 68

DEBIT.

(Expenditures.)

Cash, paid for books:—

Central Library	\$65 43
West Somerville Branch Library	2 25

\$67 68
Public Library, Martha R. Hunt Fund, Income, Books.

CREDIT.

Balance from 1912	\$70 79
Cash, income from invested funds	494 24

\$565 03

Balance to credit of account, 1914	3 53
--	------

\$561 50

DEBIT.

(Expenditures.)

Cash, paid for books:—

Central Library	\$417 20
East Somerville Branch Library	67 68
Union Square Branch Library	76 62

\$561 50
Public Library, Martha R. Hunt Fund, Income, Art.

CREDIT.

Balance from 1912	\$52 50
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Balance to credit of account, 1914	52 50
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Public Library, Frances A. Wilder Children's Department Fund, Income.

CREDIT.

Balance from 1912	\$13 31
Cash, income from invested funds	4 04

\$17 35

Balance to credit of account, 1914	17 35
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S. Newton Cutler Library Fund, Income.

CREDIT.

Balance from 1912	\$25 00
Cash, income from invested funds	20 00
	\$45 00
Balance to credit of account, 1914	49
	\$44 51

DEBIT.

(Expenditures.)

Cash, paid for books:—	
Central Library	\$44 51

RECREATION.**Engineering Department, Parks Maintenance.**

CREDIT.

Appropriation	\$8,300 00
Revenue, amount appropriated ;	50 00
	\$8,350 00
Sewers Maintenance account, amount transferred	700 00
	\$7,650 00
Excess and Deficiency account, balance transferred	33
	\$7,649 67

DEBIT.

(Expenditures.)

Cash, paid laborers	\$4,435 75
American Express Co., expressing	40
W. B. Brown & Co., fountain strainer	3 70
Joseph Breck & Sons, mower casting	1 40
Barrett Mfg. Co., tarvia	271 26
Ernest W. Bailey, one-half cost registra- tion of automobile	7 50
Charles E. Berry, sharpening tools	68 98
C. W. Cahalan, plumbing supplies	8 35
Cornelius Callahan Co., repairing hose	4 00
J. A. Durell, paints, etc.	6 09
Neils A. Dolleris & Son Co., gas tanks	3 25
Fisk Rubber Co., tire cases	76 65
F. C. Fuller & Co., lawn mower	11 00
A. C. Gordon, glass	2 00
J. W. Howard, plants for parks	927 26
Hemeon Bros., repairing fences	174 94
Hillman Auto Supply Mfg. Co., repairing automobile	5 75
A. B. Hodgdon & Co., repairing smoke pipe	2 05
E. H. Jones, photographs	3 00
Knox Automobile Co., repairing automo- bile	81 07
C. H. Manzer, settee slats	15 05
George W. Manning, labor on flag-staffs, ...	112 00
Amount carried forward	\$6,221 45

Amount brought forward	\$6,221 45	
Martin & Wood, sharpening mowers	21 35	
Charles Mills, repairing flags	1 25	
Mary E. O'Brien, repairing flag	2 00	
Mrs. K. Patri, repairing flag	4 00	
W. E. Plumer & Co., twine and rope	6 45	
Perrin, Seamans & Co., hose	35 00	
Relay House, dinners	6 00	
A. A. Rooney, one-half cost of fence	25 87	
E. S. Sparrow & Co., wire	30 50	
James Teylin, teaming	730 75	
The Underhill Co., repairing automobile	39 97	
Underhill Hardware Co., lawn seed	9 00	
L. A. Wright, bolts	5 50	
I. B. Walker, rods and repairs	4 70	
Whitney & Snow, supplies	141 82	
Henry A. Wheeler & Co., flags	10 71	
	\$7,296 32	
Elm-Leaf Beetle Extermination, arsenate of lead	28 13	
Highways Maintenance account, use of city teams	351 09	
Water Maintenance account, repairing bub- blers, etc.	82 01	
	\$7,757 55	
Service Transfer, from Sidewalks Construc- tion account	107 88	
		<u>\$7,649 67</u>

Public Buildings Department, Maintenance Park Buildings.

CREDIT.

Appropriation	\$300 00
Excess and Deficiency account, balance transferred	61
	\$299 39

DEBIT.

(Expenditures.)

Cash, paid for labor	\$25 50
F. C. Ayer, lumber	32 72
Armstrong Bros., plumbing	39 39
James W. Benjamin, carpentering	5 00
J. A. Durell, paints	4 38
Edison Electric Illuminating Co., light- ing	22 62
Leavis & Doherty, drinking fountain, etc., ...	8 97
J. Edward L. McLean, carpentering	2 10
G. F. McKenna & Son, teaming	30 00
Martin & Wood, electrical work	17 00
George W. Manning, labor on flag pole	16 00
W. E. Plumer & Co., rope	18 25
George L. Robinson, painting	2 00
Underhill Hardware Co., hardware	95
Wellington-Wild Coal Co., fuel	64 51
	<u>\$299 39</u>

Engineering Department, Playgrounds Maintenance.

CREDIT.

Appropriation	\$3,300 00
Revenue, amount appropriated	50 00
	\$3,350 00
Excess and Deficiency account, balance transferred	31
	\$3,349 69

DEBIT.

(Expenditures.)

Cash, paid laborers	\$2,139 55
F. C. Ayer, lumber	11 68
Boston Woven Hose & Rubber Co., hose	39 20
Estate of D. J. Bennett, straps	5 50
P. Bornstein, salt hay	34 50
William F. Chester Co., ladder rungs	2 00
James H. Fannon, sand	52 50
Fisk Rubber Co., bolts and valves	16 67
A. C. Gordon, glass	6 00
Hemeon Bros., building seats, etc.	77 32
Highland Coal Co., lime	20 00
Knox Automobile Co., repairing automobile	4 41
E. S. Kearney Co., sawdust	10 00
George W. Manning, making ladders, etc.	17 50
Charles F. Mills, labor	28 00
Perrin, Seamans & Co., hose	35 00
W. E. Plumer & Co., rope and clamps	10 70
Alden Speare's Sons Co., tasscoil	445 90
E. S. Sparrow & Co., cleats, etc.	25
James Tevlin, teaming	408 27
Underhill Co., repairing automobile	7 39
I. B. Walker, rod and buckle	2 85
Wright & Ditson, baseball bases, etc.	32 00
Whitney & Snow, paint	24 09
	\$3,431 28
Water Maintenance account, turning off water and repairing pipes	2 42
	\$3,433 70
Service Transfer, from Summer Playgrounds account	84 01
	\$3,349 69

Playgrounds Extension.

CREDIT.

Balance from 1912	\$2 58
Appropriations, from Funded Debt, 1913	2,500 00
	\$2,502 58
Balance to credit of account, 1914	1,798 35
	\$704 23

DEBIT.

(Expenditures.)

Cash, paid laborers	\$33 89
F. C. Ayer, lumber	7 04
Charles E. Berry, wire and labor on fence	115 14
Denis I. Crimmings, sand and gravel .	122 43
Hanscom Construction Co., work at courts	78 20
Hemeon Bros., building back stop . .	49 23
E. S. Sparrow & Co., paint	6 55
James Tevlin, teaming	29 25
Whitney & Snow, hardware	11 07
	\$452 80
Highways Maintenance account, construct- ing tennis courts	143 17
Water Works Extension account, construct- ing fountains	108 26
	\$704 23

School Department, Summer Playgrounds.

CREDIT.

Appropriation	\$2,500 00
Excess and Deficiency account, balance transferred . .	40
	\$2,499 60

DEBIT.

(Expenditures.)

Cash, paid instructors and others	\$1,919 91
Boston Woven Hose & Rubber Co., hose,	14 35
James W. Brine Co., bats, balls, etc. .	89 70
W. B. Brown & Co., playground appa- ratus	193 13
Charles S. Clark, Superintendent of Schools, disbursements	12 00
Cotter & Son, expressing	1 25
Framingham Nurseries, trees	15 48
Glines Express Co., expressing	1 00
Gilman Express Co., expressing	15
J. W. Howard, fertilizer	3 00
Charles W. Hobbs, medals	6 00
Iver Johnson Sporting Goods Co., bats,	12 00
Horace Partridge Co., balls, etc. . . .	19 26
Renner's Express, expressing	15
A. P. Rockwood, use of horse	4 00
A. G. Spaulding, apparatus	65 13
Stuart-Howland Co., tape	3 50
Wright & Ditson, balls	4 15
Henry A. Wheeler & Co., shelter covers .	7 00
John M. Woods & Co., lumber	26 04
	\$2,397 20
Highways Maintenance account, setting trees, etc.	18 39
Playgrounds Maintenance account, erect- ing apparatus, sand, etc.	84 01
	\$2,499 60

Lincoln Park, Shower Baths.

CREDIT.

Appropriations, from Funded Debt, 1913	\$1,000 00
Balance to credit of account, 1914	5 50
	\$994 50

DEBIT.

(Expenditures.)

Cash, paid laborers	\$71 50
F. C. Ayer, lumber	101 57
James Beard, carpentering	40 00
Richard J. Clark, roofing	250 00
Carlisle-Ayer Co., doors	12 56
Davenport-Brown Co., wood work	25 63
Leavis & Doherty, plumbing	250 00
W. E. Plumer & Co., hardware	1 61
John Welch, mason work and materials	238 00
Whitney & Snow, hardware	3 63
	\$994 50

Public Buildings Department, Maintenance Bathhouse.

CREDIT.

Appropriation	\$2,200 00
Public Buildings Department, Maintenance East Somerville Branch Library account, amount transferred	100 00
	\$2,300 00
Excess and Deficiency account, balance transferred	2 60
	\$2,297 40

DEBIT.

(Expenditures.)

Cash, paid weekly salaries	\$848 72
Labor	118 00
F. C. Ayer, lumber	35 46
George A. Ayer, plumbing	1 77
Cambridge & Somerville Laundry, laundering	186 88
Jackson Caldwell & Co., mirrors	2 00
C. W. Cahalan, plumbing	6 00
F. C. Fuller & Co., clothes line	75
Glines & Co., expressing	75
Otis A. Handy, printing posters and circulars	4 50
Iver Johnson Sporting Goods Co., bathing suits, etc.	168 25
Charles F. Mills, hire of raft	20 00
G. F. McKenna & Son, teaming	17 00
William J. McCarthy Co., sand, stone, teaming, etc.	522 08
Martin & Wood, lock work	70
Perry & Shea, drugs	2 05
W. E. Plumer & Co., hardware	88
Somerville Publishing Co., printing	9 75
E. S. Sparrow & Co., hardware	35 37
Amount carried forward	\$1,980 91

Amount brought forward	\$1,980 91	
Toppan Boat Mfg. Co., buoy, rope, etc.	5 95	
Trimount Press, printing tickets	13 00	
Underhill Hardware Co., hardware	1 30	
Joseph A. Wickes, painting	221 24	
Henry A. Wheeler & Co., awnings	75 00	
		\$2,297 40

CELEBRATIONS.

Memorial Day.

	CREDIT.	
Appropriations		\$425 00
	DEBIT.	
	(Expenditures.)	
Cash, paid Frank E. Draper Camp 41, S.		
A. W. V., observance of Memorial Day,	\$75 00	
Willard C. Kinsley Post 139, G. A. R.,		
observance of Memorial Day	350 00	
		\$425 00

Independence Day.

	CREDIT.	
Contingent Fund account, amount transferred		\$500 00
	DEBIT.	
	(Expenditures.)	
Cash, paid Somerville Fourth of July Association, cele-		
bration of Independence Day		\$500 00

UNCLASSIFIED.

Municipal Documents.

	CREDIT.	
Appropriation		\$1,625 00
Excess and Deficiency account, balance transferred		15 38
		\$1,609 62
	DEBIT.	
	(Expenditures.)	
Cash, paid Walter S. Barnes & Son, boxes,	\$4 00	
Somerville Post Office, postage	14 25	
Somerville Journal Co., printing annual		
reports	1,591 37	
		\$1,609 62

Contingent Fund.

	CREDIT.	
Appropriation		\$1,652 00
Municipal Loan, amount appropriated		13,000 00
Amount carried forward		\$14,652 00

Amount brought forward	\$14,652 00
Amounts transferred to the following accounts:—	
Independence Day	\$500 00
City Messenger's Department	1,000 00
Poor Department, Miscellaneous	1,756 30
Poor Department, City Home	1,948 15
Maintenance School Buildings	3,800 00
Certification of Notes and Bonds	187 50
Refuse Disposal	2,000 00
Highways Maintenance	806 96
Weights and Measures Department	33 53
	12,032 44
	\$2,619 56
Excess and Deficiency account, balance transferred	2,346 02
	\$273 54

DEBIT.

(Expenditures.)

Cash, paid Frank R. Dunklee, disbursements	\$22 00
Benjamin F. Freeman, portrait of Jairus Mann	75 00
John H. Gartland, decorating	25 00
J. W. Howard, wreath	10 00
Walter M. Johnson, services of orchestra, Richard A. Keyes, services as stenographer for Special Investigating Committee	45 00
George M. Roak, wreath	50 00
University Club, dinners	10 00
	36 54
	\$273 54

Building Public Buildings.

CREDIT.

Balance from 1912	\$450 73
Amounts transferred from the following accounts:—	
Municipal Buildings, Vaults	\$21 93
Police Department, Additional Equipment	285 00
Police Signal System	92 26
Refuse Disposal, New Equipment	50 00
City Home Addition	59
S. Newton Cutler School, Grading Land	236 10
Schoolhouses, Additional Window Space	30 34
Bell School, Additional Window Space	11 47
Bingham School, Construction of Hall	49 54
School Buildings, Fire Exits	167 30
	944 53
	\$1,395 26
Balance to credit of account, 1914	\$1,395 26

MUNICIPAL INDEBTEDNESS.**Interest.****CREDIT.**

Appropriation	\$90,000 00
Water Works Income, amount appropriated	1,500 00
	\$91,500 00
Excess and Deficiency account, balance transferred	494 70
	\$91,005 30

DEBIT.

Coupons account:—		
Coupons maturing April 1, 1913	\$12,307 50	
Cash paid:—		
Coupons maturing July 1, 1913	14,080 00	
Coupons maturing October 1, 1913	13,325 00	
Coupons maturing January 1, 1914	14,310 00	
		\$54,022 50
Interest on Registered bonds:—		
Interest due April 1, 1913, ...	\$3,920 00	
Interest due July 1, 1913, ...	1,990 00	
Interest due October 1, 1913	4,428 75	
Interest due January 1, 1914	1,792 50	
		12,131 25
On Temporary Loans:—		
Notes Nos. 151, 153-160, 266 days	\$3,801 33	
Note No. 162, 239 days	1,410 76	
Note No. 161, 233 days	550 14	
Notes Nos. 172-173, 229 days	572 50	
Notes Nos. 164-171, 224 days	1,680 00	
Notes Nos. 183-188, 218 days	1,544 16	
Note No. 174, 232 days	290 00	
Notes Nos. 175-180, 227 days	1,770 60	
Note No. 163, 7 months, 21 days	2,310 00	
Notes Nos. 189-199, 314 days	5,647 64	
Notes Nos. 200-211, 254 days	3,704 16	
Notes Nos. 212-213, 249 days	1,642 70	
Note No. 214, 265 days	2,027 00	
		26,950 99
		\$93,104 74
Refund: Accrued interest on bond issues, 1913	2,099 44	
		<u>\$91,005 30</u>

Memorandum of Total Payments of Interest, 1913.

Interest on Temporary Loans	\$26,950 99
Interest on City Bonds:—	
City, Sewer, etc.	\$62,554 31
Water	1,500 00
	64,054 31
Interest on Metropolitan Assessments:—	
(See Commonwealth of Massachusetts account.)	
Metropolitan Sewers	\$29,138 47
Metropolitan Parks	13,465 99
Charles River Basin	2,729 77
Alewife Brook	472 50
Metropolitan Water Assessment	70,206 83
	116,013 56
Interest on State Assessments:—	
(See Commonwealth of Massachusetts account.)	
Abolition of Grade Crossings	2,737 08
	\$209,755 94

Reduction of Funded Debt.

CREDIT.	
Balance from 1912	\$5,848 20
Appropriation	210,151 80
Water Works Income, amount appropriated (Water Bonds)	6,000 00
Cash, received premium on bonds	1,836 90
	\$223,836 90
Balance to credit of account, 1914	1,836 90
	\$222,000 00
DEBIT.	
(Expenditures.)	
Cash, paid bonds maturing in 1913	\$222,000 00

Memorandum of Total Payments on Account of Debt, 1913.

Water Bonds	\$6,000 00
City Loan, Sewer, etc.	216,000 00
On account of Metropolitan District Debt:—	
(See Commonwealth of Massachusetts account.)	
Metropolitan Sewers	\$15,673 40
Metropolitan Parks	4,776 96
Charles River Basin	200 64
Alewife Brook	750 00
Metropolitan Water Assessment	25,422 86
	46,823 86
On account of State Assessment:—	
(See Commonwealth of Massachusetts account.)	
Abolition of Grade Crossings	9,354 19
	\$278,178 05

PUBLIC SERVICE ENTERPRISES.**Water Maintenance.**

CREDIT.

Appropriation	\$37,000 00
Water Works Extension account, amount transferred	2,500 00
	\$39,500 00
Excess and Deficiency account, balance transferred	1,015 35
	\$38,484 65

DEBIT.

(Expenditures.)

Cash, paid laborers	\$20,754 92
Frank E. Merrill, salary as water commissioner	2,300 00
disbursements, and auto use	385 43
Lillian E. Leavitt, assistant	150 00
Marion L. Morrison, assistant	444 18
Josephine M. Sander, assistant	618 32
Lula E. Chapman, clerical services	264 50
Annie F. Cammick, clerical services	170 67
Mary L. Murray, clerical services	158 00
Elsie Goddard, clerical services	104 00
Annie E. Holton, clerical services	30 00
J. Madeline Coy, clerical services	24 00
Charles R. Hildred, foreman assistant	1,031 85
Harvey W. King, pension	385 05
Richard Whalen, pension	81 12
Andrew McCaffrey, pension	65 34
Thomas McNeill, flushing streets	74 50
Ames Implement & Seed Co., axle clamps	30
American Express Co., expressing	7 94
Town of Arlington, pipe	254 88
American Belting & Tanning Co., leather,	5 85
American Steam Gauge & Valve Mfg. Co., gauge	1 76
William C. Abbott, automobile	500 00
Ashton Valve Co., gauge, etc.	4 70
Aquaphone Co., aquaphones	10 32
Boston & Maine Railroad, freight	563 45
Estate of D. J. Bennett, harness repairs	22 15
Braman, Dow & Co., service fittings	711 65
Boston Bolt & Iron Co., bolts	3 35
Harold L. Bond Co., packing and tools,	84 15
J. A. Bremner & Co., paste, etc.	80
Builders' Iron Foundry, casting	735 75
Beyer & MacDonald, electric fittings	6 18
W. B. Brown & Co., dust covers	1 00
George R. Bascom, wind shield, etc.	21 31
Thomas D. Bennett, harness repairs	16 95
Boston Belting Co., hose	12 56
W. H. Broderick, M. D. C., veterinary services	10 00
Boice-Perrine Co., electrical supplies	7 32
Chadwick-Boston Lead Co., lead pipe	1,214 14
Amount carried forward	
	\$31,238 39

Amount brought forward	\$31,238 39
Carter's Ink Co., ink	1 25
Cotter & Son, expressing	25
Earl C. Combie, disbursements	5 35
Joseph Cox, repairing	4 75
J. E. Cross, stamping-pads	1 55
Chandler & Farquhar Co., tubing, etc.	15 34
Chapman Valve Mfg. Co., valves	145 53
Cut Price Auto Supply Co., tires	12 03
Cornelius Callahan Co., gate valve	10 15
William E. Copithorne, disbursements	3 75
Cotter's Express, expressing	3 50
Dusseault Bros., expressing	50
H. J. Dallman Co., wire brushes	7 89
L. T. DeCelles, labor	39 10
Julian D'Este Co., brass, etc.	90 14
Neils A. Dolleris & Son Co., tanks	9 25
Michael F. Davis, settlement	5 37
Davenport-Brown Co., boxes	14 40
William J. Daley, adjustment	60
Edson Mfg. Co., pump repairs	31 34
J. H. Edwards, blacksmithing	220 90
The Elliott Co., stencil blanks, etc.	12 93
Edison Electric Illuminating Co., lamps	80
Enterprise Rubber Co., rubber mits	3 67
Eisner-Lenk Co., magnets, and repairs	4 15
John Fisher, fittings	90
Firestone Tire & Rubber Co., tires	11 96
Agnes M. Fitzmaurice, services	3 00
Fisk Rubber Co., tires	121 91
Seth W. Fuller Co., coil repairs	1 20
Fresh Pond Ice Co., ice	139 75
James H. Fannon, sand and blocks	7 50
Glines & Co., expressing	2 05
B. F. Goodrich Co., tires	265 01
Gilman Express Co., expressing	39 69
Green & Swett Co., oils	58 52
George W. Gale Lumber Co., lumber	18 14
F. W. Gilbert, rubber boots	27 00
Gulf Refining Co., kerosene	38 70
Charles R. Gow Co., labor	146 10
W. A. Greenough & Co., directory	4 00
Globe Gas Light Co., torches	7 10
A. C. Gordon, lettering	4 00
Gould Mfg. Co., washers	15
William F. Hitchings, veterinary services	16 00
Holtzer-Cabot Electric Co., dial sheets	1 76
Hersey Mfg. Co., meter parts	24 17
Freeman B. Horsman, claim	40 00
Highland Coal Co., slab wood	44 50
William S. Howe, galvanized iron	4 25
Hill-Michie Co., batteries	13 82
International Harvester Co., repairs to truck	231 00
Ideal Supply Co., pipe	7 78
J. A. Kiley, wagon, and auto top	112 44
Lombard & Co., grindstone	4 76
Amount carried forward	\$33,280 04

Amount brought forward	\$33,280 04
R. S. Lombard, oats	25 50
E. Linegar & Co., vulcanizer	15 30
Ludlow Valve Mfg. Co., valves	36 50
Leavis & Doherty, plumbing	12 00
George W. Ladd, blacksmithing	203 65
Lead Lined Iron Pipe Co., pipe and fittings	1,703 05
Lord & Webster, hay	243 93
Library Bureau, cards	20 14
T. E. Littlefield, lumber	142 55
C. W. Lerner Co., disinfectant	31 45
W. J. Mythen & Co., repairing wind shields	5 50
Martin & Wood, sharpening tools	9 77
Mabel H. Murphy, damages	30 47
H. Mueller Mfg. Co., service fittings	412 55
Malden Center Garage, burner	15 00
Neptune Meter Co., meters	539 00
National Meter Co., meter parts	17 38
New England Telephone & Telegraph Co., service	189 68
M. Norton & Co., rubber goods	42 40
New England Towel Supply Co., use of towels	5 40
Norwood Engineering Co., hydrants	282 11
Fulton O'Brien, oats	32 25
W. E. Plumer & Co., hardware and tools, ...	68 39
Proctor Bros. Grain Co., grain	223 69
Perrin, Seamans & Co., shovels, picks, etc.	79 54
Phelps Bros., hay	22 16
George G. Page Co., meter boxes	35 00
Joseph Palmer, automobile repairs	15 35
Perry's Prescription Pharmacy, drugs	3 25
Pyrene Co., pyrene liquid	90
Rensselaer Valve Co., valves and hydrants	876 20
John B. Rufer, shoeing	15 65
Somerville Post Office, postage	604 82
Somerville Industrial School for Boys, machine work	2 00
Standard Oil Co., gasoline	48 00
Somerville Iron Foundry, castings	538 86
Somerville Journal Co., printing	349 60
E. S. Sparrow & Co., tools	28 89
Standard Cast Iron Pipe & Foundry Co., pipe and fittings	4,317 80
Stanley Motor Carriage Co., repairs	345 89
Scott & Tinglof, oak rings	8 40
Frederick W. Shepperd, subscription	3 00
L. C. Smith & Bros., typewriter	70 05
Somerville Publishing Co., printing	10 50
Sanborn Map Co., map corrections	10 50
Howard B. Sawyer Oil Co., oil	15 60
Simpson Bros. Corporation, repairs	39 40
F. E. Saunders, auto-vehicle	260 00
Amount carried forward	\$45,289 06

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 145

Amount brought forward	\$45,289 06	
Stewart-Warner Speedometer Corpora- tion, automobile repairs	7 75	
William J. Thompson & Co., salt	2 60	
The Texas Co., gasoline	1,236 80	
Fred J. Thomsen, disbursements	18 15	
Thomson Meter Co., meters	2,717 88	
Thorpe's Express, expressing	15	
Turner & Co., envelopes	66 15	
Thompson-Durkee Co., bubbler tips	13 00	
Transo Paper Co., envelopes	22 50	
Underhill Hardware Co., tools	91 98	
Union Water Meter Co., meters and service fittings	1,047 98	
W. H. Vinton, washers	2 00	
R. D. Wood & Co., hydrants	280 42	
Frederick B. Witherly, castings	70 00	
A. J. Wilkinson & Co., tools, etc.	62 95	
Samuel Ward Co., office supplies	121 06	
Waldo Bros., pipe and cement	122 41	
Walworth Mfg. Co., service fittings	102 01	
Henry R. Worthington, meters	1,894 05	
Webber Washer Co., washers	6 00	
Wetmore-Savage Co., batteries, etc.	77 64	
R. Woodman Mfg. & Supply Co., sealing wire	15 19	
Wilkins Press, books	13 08	
Wadsworth, Howland & Co., lacquer	35	
Water Works Equipment Co., detector	15 00	
Warren Bros. Co., paving	27 09	
Winter Hill Ice Co., ice	9 00	
A. M. Wood Co., lumber	3 71	
C. L. York Co., teaming	58 93	
	\$53,394 89	
Highways Maintenance account, crushed stone	34 29	
	\$53,429 18	
Service Transfers, from sundry accounts	14,944 53	
	\$38,484 65	

Water Works Extension.

CREDIT.

Appropriation	\$25,000 00	
Amounts transferred to the following accounts:—		
Highways, Street Cleaning	\$1,000 00	
Water Maintenance	2,500 00	
	3,500 00	
	\$21,500 00	
Excess and Deficiency account, balance transferred	1,275 56	
	\$20,224 44	

DEBIT.

(Expenditures.)

Cash, paid laborers	\$6,255 37	
Water Maintenance account, stock, teaming, tools, etc.	14,077 33	
	\$20,332 70	
Service Transfer, from Playgrounds Ex- tension account	108 26	
		\$20,224 44

Water Works, Refunds of Water Charges.

DEBIT.

(Expenditures.)

Cash, paid sundry persons, money refunded	\$245 27
Cash Refunds: water charges	245 27
(See Revenue, Table E.)	

Public Buildings Department, Maintenance Water Buildings.

CREDIT.

Appropriation	\$1,100 00
Commissioner Public Buildings account, amount trans- ferred	27 52
	\$1,072 48
Excess and Deficiency account, balance transferred	83 13
	\$989 35

DEBIT.

(Expenditures.)

Cash, paid labor	\$39 00
F. C. Ayer, lumber	1 32
Boston Belting Co, linen hose	26 70
Charlestown Gas & Electric Co., gas	23 20
C. W. Cahalan, plumbing	379 29
Davenport-Brown Co., wood work	3 60
Edison Electric Illuminating Co., lighting, ...	238 30
Glines & Co., expressing	40
Charles F. Mills, carpentering	24 00
George W. Manning, labor on flag pole	4 75
Pittsburg Plate Glass Co., glass	3 47
W. E. Plumer & Co., hardware	45
George L. Robinson, painting	4 00
John B. Bufer, bolts	8 10
John M. Woods & Co., lumber	39 90
Wellington-Wild Coal Co., fuel	192 87
	\$989 35

Revenue and Receipts Used for Expenses, 1913.

Assessed under \$12 limit	\$834,519 96
Assessed for Municipal Indebtedness	300,151 80
City Tax	\$1,134,671 76
From Corporation Taxes, City Departments, etc.	448,131 62
Amount carried forward	\$1,582,803 38

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Amount brought forward	\$1,582,803 38
Insurance, Girls' Industrial School	40 00
Excess and Deficiency balance from 1912	13,419 70
Reduction of Funded Debt, balance from 1912	5,848 20
Municipal Loan	60,000 00
	<u>\$1,662,111 28</u>

Expenditures, Maintenance.

General Government	\$77,931 39
Protection of Life and Property	240,190 70
Health and Sanitation	155,861 29
Highways	122,761 72
Charities	40,109 31
Soldiers' Benefits	37,655 49
Education	428,334 96
Libraries	42,525 80
Recreation	17,020 75
Unclassified	1,883 16

Indebtedness	(City Bonds	\$216,000 00	
	Water Bonds	6,000 00	
	Interest Bonds	64,054 31	
	Interest on Temp- orary Loans	26,950 99	
		<u>\$313,005 30</u>	
	Less Water Bonds \$6,000 00 Water Interest 1,500 00 <u>7,500 00</u>		305,505 30

Water Works, including bonds and interest	183,519 32
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\$1,653,299 19

Transferred from School Teachers' Salaries to High School, Furnishing and Equipment (Funded Debt account)	1,040 00
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\$1,654,339 19

Balance to credit of Excess and Deficiency, ...	7,772 09
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\$1,662,111 28 \$1,662,111 28

NON-REVENUE ACCOUNTS.

Receipts.

Funded Debt accounts:—		
Balance to credit December 31, 1912		\$181,175 46
Loan of April 1	\$135,000 00	
Loan of July 1	\$87,000 00	
Less credited Maintenance accounts	60,000 00	
	<u>27,000 00</u>	
		162,000 00
Amount carried forward		<u>\$343,175 46</u>

Amount brought forward		\$343,175 46
Premium on bonds		1,836 90
Offsets credit back	\$2,261 11	
Less refunds in above	1,085 25	
		1,175 86
Transferred from School Teachers' Salaries		1,040 00
Gifts, Carnegie Corporation		75,000 00
Assessments levied:—		
Highway Betterment	\$7,135 45	
Sidewalk	18,198 89	
Sewer	1,716 21	
	\$27,050 55	
Abatement on Sidewalk Assessment	16 76	
		27,033 79
		\$449,262 01

Expenditures.

Protection of Life and Property	\$17,432 75	
Health and Sanitation	26,666 08	
Highways	84,990 95	
Charities	120 10	
Education	156,997 25	
Libraries	90,570 22	
Recreation	1,698 73	
		\$378,476 08
Balance Funded Debt accounts to 1914	\$68,949 03	
Balance Reduction of Funded Debt account to 1914	1,836 90	
		70,785 93
		\$449,262 01

TRUST FUNDS.**Public Trust Fund, Income.**

Public Library, to credit December 31, 1912, ...	\$384 29	
From investments	630 96	
Public School, to credit December 31, 1912, ...	125 00	
From investments	100 00	
		\$1,240 25

Expenditures.

Public Library	\$933 36	
Public School	20 00	
Balance to 1913, Public Library	81 89	
Balance to 1913, Public School	205 00	
		\$1,240 25

Private Trust Funds.

Overplus on Tax Sales, December 31, 1912, ...		\$118 13
balance		
Sundry Persons, December 31, 1912, bal-		719 56
ance		
Received Guarantee Deposits	1,500 00	
Received Redemption of Tax Liens	1,399 37	
		\$3,737 06

Expenditures.

Sundry Persons	\$100 00	
Guarantee Deposits	1,500 00	
Redemption of Tax Liens	1,399 37	
Balance to 1913, Sundry Persons	619 56	
Balance to 1913, Overplus on Tax Sales	118 13	
		\$3,737 06

REPORT OF THE SCHOOL COMMITTEE.

School Committee Rooms, January 2, 1914.

Ordered, that the annual report of the Superintendent be adopted as the annual report of the Board of School Committee, it being understood that such adoption does not commit the Board to the opinions or recommendations made therein; that it be incorporated in the reports of the City Officers; and that 1,000 copies be printed separately.

CHARLES S. CLARK,
Secretary of School Board.

SCHOOL COMMITTEE, 1913.

HENRY H. FOLSOM, ...	Chairman
GEORGE C. MAHONEY, ...	Vice-Chairman

Members.

	Term expires January
EX-OFFICIIS.	
CHARLES A. BURNS, Mayor, 27 Thurston street	1914
FRANK R. DUNKLEE, President Board of Aldermen, 5 Prospect Hill avenue	1914
WARD ONE.	
MRS. MARY G. WHITING, Hotel Wadsworth	1914
THOMAS A. KELLEY, 39 Pennsylvania avenue	1915
WARD TWO.	
DANIEL H. BRADLEY, 19 Concord avenue	1914
THOMAS M. CLANCY, 52 Springfield street	1915
WARD THREE.	
GEORGE E. WHITAKER, 75 Walnut street.	1914
ALBERT C. ASHTON, 33 Columbus avenue	1915
WARD FOUR.	
*CHARLES A. KIRKPATRICK, 27 Sewall street	1914
†HARRY A. STONE, 254 Broadway	1914
MARTIN P. HOGAN, 255 Broadway	1915
WARD FIVE.	
HENRY H. FOLSOM, 103 Central street	1914
HERBERT A. MACDONALD, 5 Norwood avenue	1915
WARD SIX.	
FREDERICK A. P. FISKE, 44 Cherry street	1914
MRS. MARY R. BREWER, 170 Summer street	1915
WARD SEVEN.	
GEORGE C. MAHONEY, 97 College avenue	1914
HERBERT CHOLERTON, 94 College avenue	1915

Superintendent of Schools.

CHARLES S. CLARK.

Office: City Hall Annex, Highland avenue.

Residence: 82 Munroe street.

The Superintendent's office will be open on school days from 8 to 5; Saturdays, 8 to 10. His office hours are from 4 to 5 on school days, and 8 to 9 on Saturdays.

Office telephone, 314; house telephone, 12.

Superintendent's office force:—

Justin W. Lovett, 29 Cambria street.

Mary A. Clark, 42 Highland avenue.

Mildred A. Merrill, 26 Cambria street.

* Resigned September 4, 1913.

† Elected September 25, 1913.

STANDING COMMITTEES, 1913.

Note.—The member first named is chairman.

High School —Mahoney, Bradley, Ashton, Hogan, MacDonald, Fiske, Mrs. Whiting.

District I.—Mrs. Whiting, Kelley, Clancy.
PRESCOTT, HANSCOM, BENNETT.

District II.—Bradley, Clancy, Kelley.
KNAPP, PERRY, BAXTER.

District III.—Whitaker, Ashton, Mrs. Whiting.
POPE, BELL, CUMMINGS.

District IV.—Stone, Hogan, MacDonald.
EDGERLY, GLINES.

District V.—Folsom, MacDonald, Stone.
FORSTER, BINGHAM.

District VI.—Fiske, Mrs. Brewer, Folsom.
CARR, MORSE, PROCTOR, DURELL, BURNS, BROWN.

District VII.—Mahoney, Cholerton, Fiske.
HIGHLAND, HODGKINS, CUTLER, LOWE.

Finance.—Ashton, Stone, Kelley, Clancy, Whitaker, Folsom, Fiske, Burns, Dunklee.

Text-books and Courses of Study.—Whitaker, Kelley, Clancy, Stone, Folsom, Mrs. Brewer, Cholerton.

Industrial Education.—Ashton, Mrs. Whiting, Clancy, Kelley, Mrs. Brewer, Hogan, Stone.

School Accommodations.—Clancy, Hogan, Whitaker, Stone, MacDonald, Mrs. Brewer, Cholerton, Burns, Dunklee.

Teachers.—Fiske, Whitaker, Bradley, Folsom, Mahoney.

Playgrounds and School Hygiene.—Mrs. Whiting, Mrs. Brewer, Cholerton, Kelley, MacDonald.

Rules and Regulations.—Bradley, Fiske, Mahoney.

REPORT OF THE SUPERINTENDENT OF SCHOOLS.

To the School Committee of Somerville:—

I have the honor to present the following report of the conditions of the schools for the year 1913. This is the forty-second annual report of the schools and the sixth which I have written.

I have compiled the statistical tables showing the facts of attendance, cost, etc., for the school year ended June 30, 1913. This change was made because by State Law School Committees are required to furnish such statistics to the State Board of Education and because the custom is general for cities to show school statistics for the school year. I have added, however, tables showing the use made of the appropriations for the municipal year. My comments upon the state of the schools relate in general to the municipal year.

It has seemed to me desirable to make a general report of the undertakings which the School Committee have under their charge and to leave detailed statements of special activities to the officers having them in charge.

The Obligations of Public Education.

In seeking to understand the work of any agency the investigator would do well to find the influences which condition that work and to estimate its efficiency with reference to these influences. So in making a report upon the work of public schools for another year it seems worth the while to note at the beginning what it is that public schools are today called upon to do in order that a just comparison may be made between their accomplishment and their obligations. In this way only can be brought to view what the schools are doing and why, and in this way only can be made clear what they should do that they are not doing.

Schools are the means by which society seeks to fit its youth to participate in, to maintain and improve the organized social body. The development of the individual is sought not for himself alone but also for the benefit of the society of which he is a part. It therefore follows that the efforts of the schools to prepare youth for social conditions must be shaped by reference to these conditions. Static conditions justify unchanged methods. Changing conditions demand new efforts. That social conditions are static today few are blind enough to affirm. On the contrary it is quite apparent that social conditions are in a state of flux, of economic, industrial, and vocational change. Other changes there are besides these. The order of a decade or two ago has passed away and a new order is at hand. The schools to perform their mission must adapt their efforts to the new conditions, which they must meet by

altering old methods where necessary, and by making new ones where new ones are needed.

For the needs of earlier days it was conceived to be the chief duty of the schools to impart knowledge to the young, on the theory that by means of the information thus obtained and the mental training secured from the process of learning the youth would become fitted for useful living and for bearing part in support of the institutions of the State. Consequently schools were organized with the end in view of imparting knowledge, and schoolhouses were built with this purpose solely in view. Teachers were trained in normal schools and colleges to be skilful in imparting knowledge, grades of information were established to mark the progress of the learner and all the children were offered the same courses, were held to the same requirements and were advanced according to their ability to master the requirements which were set up because of the aim which the schools held in view. All honor to the achievements of the schools during these days! It is not disparagement of them to say that the purpose which dominated them is not sufficient for today and that a new purpose has taken the place of the old and has brought with it many consequent changes and will bring many others in the future.

The new motive is regard for the child as an individual and one to assume in due time a place as a supporter of the State. As an individual the child should develop in health, happiness, knowledge, and power to do; as a future citizen he should be trained to an inclination and a capacity for useful service. A sound body, a clean heart, a well-informed mind, and faculties trained to service useful to himself and to others are the characteristics which the new motive in education seeks for each individual.

Significant of the new view in education are the recognition of the fact that children vary greatly from one another in physical powers, in aptitudes and inclinations, in home and economic conditions, and in probable length of schooling, and the attempt to provide suitable agencies of education to meet the needs which these varying conditions create. Hence today, while the graded system of schools invented as the best means of imparting knowledge to the youth of a community remains as the framework of the modern city school system the additions thereto to meet the new demands are numerous and important. A list of these additions would include the following: Health supervision, including school hygiene; physical training; provisions for exceptional children such as physically or mentally defective, wayward, slow or brilliant children; manual training, domestic art and domestic science; vocational education and its complement, the vocational advising of children; playgrounds and their supervision; home and school gar-

dening; classes for new Americans, ignorant of the language; continuation and part time classes for the youth compelled early to go to work, and night classes of all kinds for youth and adults. If this list seems staggering in its length and significance it must be remembered that the undertaking of the schools is to develop the youth of a community and to fit them for living in a complex social organization. And life is many-sided for the youth of a community as well as for the adults thereof. To meet these needs of children society turns to the schools as in the changes due to growth of cities the homes become less adequate for performing the part in the training of youth which formerly they assumed.

The Educational Offering of Somerville.

This brief survey of the tendencies of public education at the present time gives a standard of comparison for the educational establishment of Somerville. The large body of youth of our city present all the variations of need which are to be found in any city of corresponding size. The absence of industries from the city does not lessen the need of vocational education, for of a certainty the youth must be prepared to earn a livelihood, but it does increase the difficulties of providing such opportunity because of the lack of co-operation from industrial establishments. The increasing number of children and adults coming directly to our city from foreign countries presents a serious problem of properly meeting the needs of non-English speaking pupils.

To meet these standards and local needs Somerville makes provision for

A. General Development and Culture.

B. Specific Development and Efficiency.

C. Exceptional Development.

A. For General Development and Culture there are:—

1. *Day.*

Kindergartens.

Elementary Schools.

A High School with general courses.

2. *Night.*

Elementary Schools.

A High School with general courses.

B. For Specific Development and Efficiency there are:—

1. *Day.*

Vocational School for Boys.

Vocational School for Girls.

High School with a vocational course.

2. *Night.*

Industrial classes for women.

High School with vocational courses.

C. For Exceptional Development there are:—

1. *Day.*

Atypical (2).

Ungraded (1).

Non-English Speaking (1).

2. *Night.*

Non-English Speaking (2).

A. General Development and Culture. The aim in this undertaking is to enable every pupil to gain knowledge of himself, his powers and limitations, to get possession of the elements of culture and to become fit for social service. The means by which these ends are sought in the elementary schools are the school arts,—reading, writing, and arithmetic, language and literature, history and geography, hygiene, including instruction concerning the effects of alcohol and tobacco, manual and domestic arts, music, drawing, and physical training.

1. Day Schools. (a) *Elementary Schools.* As the most important of these elements of general culture the three R's occupy the most time and receive the greatest attention. In the treatment of these subjects teachers are guided by the course of study but are allowed great freedom for individual initiative and judgment. Closely associated with reading are language and literature, history and geography. These subjects are treated as major studies and have a large relative allotment of school time. Penmanship, music and drawing, manual training and sewing in the classroom, all are conducted under expert supervision and all show the benefit which such supervision always confers. One noteworthy achievement of the year has been the re-shaping of the course of instruction in sewing so as to lay emphasis upon making garments rather than upon making stitches. Under the new plan the child practices making stitches as an incident to making a garment in which her interest is mainly centred. The same educational principle is followed in all other forms of hand work, whether in the classrooms or in the manual training shops.

Taken all in all the elementary schools are organized upon the plan adopted in the early days mainly according to progressive stages or divisions of information. Upon this structure have been placed the new subjects of the curriculum. The whole conduct of the educational activities so organized is animated, however, by sympathy for the individual and by the desire to place his interests in the position of first importance. Good work abounds and good results are secured. Due to

faults of organization, however, the work of the teachers is rendered harder than it should be and the progress of pupils is made slower. One of the chief of these faults is the presence in many classes of exceptional pupils who should be taught in classes by themselves. A few such classes are already established and their value is beyond doubt. No single change in the elementary schools produces more valuable results than the grouping of exceptional children in classes by themselves.

Another fault in the organization of the elementary schools is that which limits the supervision of supervising principals or masters to buildings having the ninth grade. It would be better to change this rule so as to give to teachers in the smaller buildings the benefit of such supervision. The rule which requires masters to teach not less than ten hours each week in the highest grade should also be changed so that the master may dispose of his teaching time as his judgment dictates. In order that they may properly carry into effect the good provisions of Section 82 that masters "shall instruct classes, examine and grade pupils, and supervise the instruction of teachers in their own schools" masters should have some of those ten hours for that purpose. It is altogether to the interest of the schools that masters have opportunity to teach and do teach in every classroom under their jurisdiction.

(b) *High Schools.* The high school offers three courses whose major purpose is to give general development and culture. These are the preparatory, the manual arts, and the general courses. Each has a well defined secondary purpose. The preparatory course fits pupils for higher institutions of learning; the manual arts course fits pupils to enter on advantageous terms high grade industries; the general course helps pupils whose natural proclivities are not strongly defined to find themselves. To some extent the materials of these courses are the same, but in method of presentation, adaptation to aim and intensity of pursuit each course makes use of them in a manner suited to its needs. The programme of these courses includes ancient and modern languages, history and government, mathematics and natural science, literature, art, manual arts and domestic arts.

1. Of these courses the preparatory is the oldest, being the lineal descendant of the old Latin High School. Many of the teachers of this course taught for years in the Latin High School, are familiar with its history and traditions, are devoted to its aims, and are proud of its reputation. All of these values they are zealously working to conserve and they assert confidence in the work they are doing under the new conditions. Their associates, teachers in the course who were not formerly in the Latin High, have all been selected for this work because of special fitness for it. All of these teachers under the leader-

ship of the Head of the Preparatory Course, formerly a teacher in the Latin High, are working to make this course equal in every respect to the purpose which it serves. Last June from this course eighty-seven pupils were sent to nineteen higher institutions of learning. So far as records are procurable they are wholly creditable to the work of this course.

2. The Manual Arts course was derived from elements which existed in the English High School. The interest of the course centres around the manual arts, freehand and mechanical drawing and construction work with tools and machinery. To some extent the book subjects of the course are related to the manual work. It is proposed to make this relation closer and more vital. The purpose of this course is to give opportunity for the development in the individual of the creative faculty, initiative, and judgment through the exercises which are carried on in the shops. All of the shop work is of a practical, commercial character. As the new rooms provided for this course by the additions to the high school building were not equipped when the school opened in the fall the boys improved the opportunity for doing real work of construction by building benches, lumber racks, partitions and tool rooms. This course now has an equipment for two years in tool and machine work. There are rooms for a third and a fourth year and it is hoped that the third year room will be equipped this year.

For girls the manual arts course provides instruction in domestic science and in domestic art, the latter having recently been introduced. The present and proposed equipment for domestic science is adequate, but that for domestic arts is insufficient. At present it shares with an academic subject the use of a classroom.

What technical high schools represent to cities which support them, the manual arts course of our high school represents to Somerville.

3. The General course offers many of the subjects which are found in the preparatory course but under different conditions and limitations. The complaint that the colleges dominate high school instruction can have no force in this course. Here instruction is free from constraint and is shaped to interest the pupils in the subject matter itself. This course is somewhat experimental in its nature as by its title and its aim its limitations are not defined. As one of its aims is to help pupils to find themselves, this freedom to experiment is advantageous.

These are the offerings of the high school to the cause of general development and culture. The courses are well organized, well provided with officers and teachers, and with the exception of the Manual Arts course, well equipped. They will return to the city full value for the money invested and will meet the needs of the pupils efficiently within the limits of their

undertaking. However, it should be pointed out that this offering is deficient in one particular of first importance: It makes no provision for physical training or for athletics for either sex. As a sound body should be assured for the trained mind the omission of all care for the physical development of high school pupils is leaving to chance a matter of great significance. A physical director with suitable assistance from within or without the faculty should be provided to have charge of the physical training of the students and to develop and encourage all kinds of desirable out-of-door sports for both sexes.

Before leaving this subject I cannot forbear saying that I think the exactions of home and school duties are too severe for some high school pupils. Again some pupils are restrained from pursuing desirable work or studies out of school because home study takes all of their time. It seems to me this is neither a necessary nor a desirable condition. Its remedy can be found in allowing diploma credits to outside work so that it might be offered in substitution for some of the requirements for graduation. This idea has been worked out in some places and has in it that which is in harmony with the present tendency to make the work of the schools articulate more closely with outside interests. The administrative difficulties are such as could easily be solved once the principle were accepted.

2. The Night School. (a) Two elementary schools and one high school are maintained at night in the interest of the general development and culture of those who cannot attend school by day. The elementary schools provide instruction for illiterate minors who are compelled by law to attend night school and for others who attend voluntarily because of their eagerness to add to their command of the school arts. These night school attendants by their self-denial in devoting four nights in a week to study after the labor of the day give the strongest kind of an appeal to sympathy and appreciation. By such efforts they merit a good return and I am glad to say that they get it in these schools. Experienced principals and proficient teachers make these schools of the first order of value. In view of the social conditions to which I refer in the first part of this report I expect to see the work of these schools continue to grow in importance.

(b) The high school carries on the good work begun in the elementary schools and fills its own field with equal success. Its programme of studies includes English and mathematics, free-hand and mechanical drawing, bookkeeping, stenography and typewriting, physics, Spanish, and chemistry. The attendance this year has been the largest in the history of the school. As the members of the faculty are all experts in their specialties

the instruction offered is of a high order. Four years spent in this school will yield rich returns to the student.

Thus the offering of the City of Somerville in night school instruction spans the interval from the illiterate's beginnings in reading to the high school graduate's specialization in work of a continuation nature.

B. For Specific Development and Efficiency.

1. Day Schools. The aim in this work is to fit pupils for profitable employment in certain vocations while giving them opportunities for self-development by means of related academic work. This effort belongs to the period of secondary education and is furnished by Vocational Schools and by the High School. The Vocational Schools are organized under the provisions of chapter 471 of the Acts of 1911, are under the supervision of the Massachusetts Board of Education, and receive financial aid from the State to the amount of one-half of the cost of maintenance. Admission is given to pupils over fourteen years of age who appear able to carry on the work successfully. The vocational work of the High School is offered in a Commercial course, which fits pupils for certain forms of employment in business.

(a) *The Vocational School for Boys.* This school is now in its fourth year. It occupies the four-room school building on Tufts street known as the Davis school building. The faculty consists of a principal and three instructors. The capacity of the school as now organized is limited to fifty pupils. Instruction in two trades covering a period of two years is offered. The trades are machine work in metal, and tool and machine work in wood. The aim is to fit boys to enter these trades as advanced apprentices. In connection with the trade work instruction is given in the school arts, civics, geography, and hygiene. This work is to a large extent individual, as the variations of the pupils in attainment in school subjects is considerable. The school is doing its work well and has shown that it is established on right principles and meets a real need. Its success as measured by growth is hindered by conditions beyond its control. The whole of the space in the building available for use is occupied by the work of the school. Expansion of work will require more room, but all efforts to get more space so far have failed. Probably the best way to get a small addition of room is to adapt the basement of the building to school use. This could be done at small cost, expenditure being required mainly for a new heating outfit. The boys could make most of the construction alteration.

A just estimate of the vocational training which this school gives as a part of a scheme of secondary education will not be satisfied by a provision apparently inferior to that given to

other phases of secondary education. It will perceive that here is an educational opportunity of the utmost value to many more boys than are now sharing it, and it will insist that this educational opportunity be so presented to boys as to show them its real worth to them as preparation for usefulness. For details concerning the work of the school during the past year I invite your attention to the report of Mr. Morse, principal of the school.

(b) *The Vocational School for Girls.* This school fits girls for profitable employment in millinery and dressmaking establishments and in the domestic arts, while providing a training in related academic subjects. The school occupies a dwelling house at the corner of Atherton and Harvard streets which has been adapted to the various activities of the school in a fairly satisfactory manner. During the last year a Tea Room and Food Shop was opened at 109 Highland avenue as an adjunct to the activities of the school. At present the course at the Vocational School for Girls is two years in duration. The faculty consists of a principal and eight teachers. The success of this school is shown in its growth in attendance, the enthusiasm of its pupils, and the success of those who have gone from its courses into employment. The plan on which the school operates is broad enough to furnish educational opportunities for many more girls but the school building is already crowded, and little additional work can be done until more room can be secured. Like the Vocational School for Boys this school suffers from the appearance of inferiority which its small and crowded building gives it. When other accommodations can be provided it will be desirable to do so because of the success and promise of the school. A full report of the work of the school for the past year is furnished in the report of Miss Brown, the principal.

(c) *The High School Commercial Course.* This course originated in the English High School. At first it consisted mainly of typewriting, stenography, and bookkeeping offered in the junior and senior years, after a general course in the first two years. Now the course is so arranged as to give specific commercial instruction during any or all of the four years of the High School course. This course is distinctly vocational because its aim is to fit pupils for employment at wages in various forms of business. Consequently a large proportion of time is given to various kinds of office work, such as bookkeeping, typewriting, and stenography. Connected with this practical work there are other studies intended to supplement the practical studies and to enlarge the capacity of the pupils. Recognizing the fact that many pupils cannot remain in school the whole four years of the High School Course a grouping of the practical work in the first two years has been made for the bene-

fit of such pupils. Here can be had all the advantage which the study of two years can give. That this course is not the equivalent of one four years in length is obvious. As it is desirable that all who can shall remain the full four years pupils who complete the two years' course will be allowed to continue the work if they so desire. The vocational work of the Commercial Course of the High School is more popular than that of the other schools, judged by the numbers of pupils who select each. That the reasons which dictate this disparity are sound and wholesome may well be doubted. If they are unsound in part, it would seem to be the duty of those who shape educational policies to discover why such reasons prevail and to endeavor to substitute therefor better ones.

2. Night Schools. (a) Classes in household arts have been conducted in two centres. At the Girls' Vocational school millinery and dressmaking were taught. At the Clark Bennett school, in addition to these two subjects, cooking was offered. The conduct of these classes was in accordance with provisions of the law designed to encourage women who are employed during the day at work or in the home to attend such courses for the purpose of becoming better workers. These schools were under the supervision of the State Board of Education and received State aid. Their success was such as to warrant opening again another year.

(b) *Night High School.* Vocational work in the night high school follows the lines of the commercial work in the day high school. It differs, however, greatly from the day school work in the range of intensity among the attendants. Night school scholars are all employed during the day. Some attend night school for the purpose of fitting themselves for a change of occupation, while others do so to perfect themselves in the work in which they are engaged. The latter are generally the more accomplished in their night school work and represent a higher degree of vocational-work effort. From this point of view chemistry and mechanical drawing are included in the list of vocational subjects offered at the evening high school.

C. Exceptional Development. The aim of this undertaking is to enable exceptional pupils to develop their powers under conditions which are adapted to their needs and are favorable to their development. A secondary purpose of this provision is to promote the efficient conduct of the regular classes by removing therefrom pupils whose exceptional characteristics make them misfits there.

Public education undertakes to educate all the children of the community—a large undertaking. But while engaged in this effort with great numbers of children the schools must deal with the problem as one affecting individuals, not masses

of individuals, for education is an individual matter. But individualizing education does not mean that each child must be taught separately. To do this would not be to the interest of the child even if it were economically possible to do so. Therefore children are taught to advantage in groups. But the success of this plan depends upon the character of the grouping as well as upon the number of individuals composing the groups. A general likeness among the members of the group must exist if general instruction is to be effective and the well being of members of the group promoted. It was the recognition of this principle which led to the establishment of graded schools. The divisions or grades of the school system were determined chiefly upon the basis of information, all other considerations being disregarded. With changing social conditions, increasing enforcement of laws for compulsory school attendance, increasing perception of the physical and mental deficiencies of many children and solicitude for their amelioration, and with increasing numbers of pupils entering the schools without knowledge of the English language, new elements have entered the problem of grading and forced themselves upon the attention of teachers and others familiar with the work of schools. Formerly the plea was for ungraded classes to take care of slow or retarded pupils. Now the need amounts to demand that special provision shall be made for exceptional development. We have already established several classes for exceptional pupils.

1. Day. (a) *Atypical Classes.* There are now two classes for children of subnormal mental development, a new class having been established this year. There is a class in the Bell school and one in the Hodgkins school. The former has had a waiting list all through the year. The latter being a new class has not had an attendance equal to its capacity. This condition is due to the fact that parents of children of defective mentality are often unwilling to recognize the deficiency and to allow their children to attend the class provided for them. This attitude, while natural and inspired by parental love, is not a wise one, for it is now well established by expert knowledge and experience that such subnormal children can profit little by the exercises of the regular school, that they can never acquire a useful mastery of the school arts, but that they can attain health, happiness, and the mastery of certain manual arts if their efforts are properly directed. I think it is important that pupils of this kind should attend atypical classes wherever it is possible to do so and that additional classes be formed.

(b) *Non-English Class.* A class for non-English speaking pupils has been formed in the Clark Bennett school. Application for admission to our schools is increasing of those but recently arrived from foreign countries. These applicants vary

in age, nationality, aptitude, mentality, and education in their own language. In attainment in English they are inferior to first grade children. What shall be done with them? Manifestly it is not desirable to place them in first grades, if they are beyond the years of primary instruction. Nor do they usually fit anywhere else in the regular scheme of organization. Their welfare as well as the welfare of the community and the State demands that proper provision shall be made for the education and assimilation of these would-be Americans. The class for non-English speaking pupils at the Clark Bennett school has done well; others are needed.

2. Night. The elementary evening schools have long been dealing with this problem successfully, but it is assuming larger proportions there. Under the new law relating to the employment of minors, night school attendance is required of all minors over sixteen years of age who do not possess educational qualifications equivalent to those necessary for completion of the fourth grade of the elementary schools. By this law all new arrivals between sixteen and twenty-one years of age who are ignorant of our language swell the number of non-English speaking pupils in the night school. This work is being well done, however, and is organized on a scale sufficient for present needs.

Schoolhouses. The elementary schools have used the same buildings as last year. Not a new schoolhouse has been built for them. Rooms which were unused last year in the Edgerly, Clark Bennett, Hodgkins, and Lowe Schools have been occupied since September. Application for admission to the Cutler School in September was greatly in excess of the capacity of that building, making it necessary to send to the Hodgkins School many pupils who belonged in the Cutler School, and to provide for them to send some Hodgkins pupils to the Highland School. While this transferring resulted in providing a sitting in an all-day school for all pupils and in fairly even-sized classes in all three schools the transferring of pupils was contrary to the wishes of parents and consequently disagreeable to them. For similar reasons it was necessary to transfer a whole first grade class from the Brown School to the Lowe School. In the eastern part of the city half-time classes were avoided in the fall only by distributing attendance among the several buildings so as to make use of every sitting, in many cases contrary to the customary rule of attendance and the wishes of parents. In other reports I have pointed out that this disagreeable necessity is due to the fluctuations of school population and to the necessity of organizing the elementary school attendance in building units too small and numerous to meet the need in a more satisfactory

way. At the present time every schoolroom in the elementary buildings is in use except one in the Proctor School, and in several buildings rooms are used for classes which were not intended for that purpose. Of course the Lincoln School building, which has been unused over a year, is not included in this statement. This condition is one whose significance must be fully considered. First of all it puts a very rigid limitation upon developing new undertakings. No new special class of any kind can be opened without a room as its home. Nor can an additional grade class be opened except in the Lincoln and Proctor Schools without recourse to half-time classes. Increase of attendance in the near future may be expected in the eastern and western parts of the city and also in Ward Two. In the eastern part the increase will soon make an enrollment too great for the school buildings in that region. Additional accommodation will, therefore, soon be needed there. Whenever it is provided it should be made in connection with an existing school building or in substitution for one of them, as a twenty or twenty-four room building in place of the Edgerly or Prescott Schoolhouses. This principle of development should be applied to future additions to the elementary school plants both in the interest of educational organization and of economy in the cost of administration. Happily this principle of growth has been applied in the plans for the Cutler schoolhouse and it is only necessary to complete the building according to the architect's plan to have ample accommodations there and a thoroughly satisfactory building. It is desirable to complete this building as soon as means can be provided for doing so. While it may be possible to accommodate the West Somerville pupils without opening the Lincoln Schoolhouse before next September I think it would be better to place two or more classes there at the beginning of the next semester. By so doing the new pupils entering at that time can be cared for and some needed relief can be given to the Cutler and Hodgkins Schools.

Three unusual improvements to elementary schoolhouses were made during the summer vacation. The attic of the Bingham School was remodeled into a large and well-lighted assembly hall. Now for the first time in many years one of our grammar schoolhouses has a hall adequate to its needs.

At the Bell Schoolhouse a generous addition of windows was made, greatly improving the lighting of that building. This improvement is so valuable and so much appreciated by pupils and teachers alike as to make it a good plea for a like provision in the other schoolhouses where one is needed.

By slight alterations in the basement of the Bell Schoolhouse the ward room has been enlarged and made a suitable place for school and neighborhood meetings.

The third improvement referred to was made at the Forster School, where a brick fire-escape was built at one side of the main building.

Other repairs and improvements of a lesser extent were made at other schools, all contributing to the comfort and safety of the pupils. This work should continue unchecked, however, until all the deficiencies which have been reported are made good. It would seem good policy, moreover, to add at least one assembly room a year to the grammar schools. At the Hodgkins School is an opportunity for making a hall like the one at the Bingham. As the cost of such a change is small I hope it can be made in 1914.

But the great improvement of the year was made in enlarging the high school plant and adding to it a large assembly hall. The additions consist of two three-story wings on the north side of the west building, each wing having nine rooms above the basement, and two three-story additions to the south side of the same building, one at each end. By these additions the south front of the building was lengthened by two rooms. A three-story connecting structure was built between the east and west buildings. Interior remodeling of the two small halls and other parts of the two buildings was made in the effort to increase the seating capacity of the plant. By these means there were added to the buildings twenty-six recitation and study rooms, thirteen laboratories and shops, and eight smaller rooms for office, store-rooms, etc. Although these alterations were not begun until April first they were so nearly completed by September 15 that sessions of the school were resumed on that date in accordance with announcement made at the close of school in June, and the whole student body again attended the same single daily session. The hall which was begun ten weeks later than the other additions was finished late in December. On Tuesday, December 23, the hall was dedicated. As was fitting the first public exercise held in it was a school celebration, when for the first time the student body assembled with the faculty. In the evening there was held in the hall a public meeting and the building was thrown open to the inspection of the public. What have these additions done to help solve our High School problem? The best answer that can be made is a general one. The additions have made possible conducting the school again on a single session plan. Since September every pupil has had a sitting of his own. They have also provided a few more laboratories and workshops, giving place for additional work in sciences and manual arts. As the space of the buildings is now divided between laboratories of one kind and another and sittings for pupils, the provision for the former is pinched, is a minimum allowance, while the space devoted to sittings is a

generous maximum. Under present conditions, however, the work can be carried on with a comfort which seems great when compared with the limitations and discomforts of the past. But when at the beginning of the next semester 210 more pupils enter the school the seating capacity will be severely taxed to accommodate them. Thus it will be seen that the high school problem is not yet solved. A very great first step has been taken and high school pupils and faculty will work rejoicing in that step, but the march of development of provisions for secondary education in this city will inexorably force this problem upon public attention until greatly increased facilities are provided for the secondary education of our youth. While there is the time of waiting for this next advance it is worthy of the most thoughtful study to determine what the character of the advance should be.

Organization. Our schools are organized in the following order:—

- Kindergartens.
- Elementary Schools.
 - 9 grades.
 - 4 special classes.
- Secondary Schools.
 - High School.
 - 2 Vocational Schools.

The programme of studies for the elementary schools is uniform for schools of a given grade, though large liberty is permitted principals and teachers in its application to their individual classes. This organization of the elementary school has come down from earlier days and until the last decade has been accepted without question though the eight-year elementary course was common outside of New England. Within the last decade this grouping of the elementary educational efforts has been seriously attacked by educators of high standing and other plans of organization have been advocated by them. Within the last few years many cities have adopted plans of organization varying in a greater or less degree from the traditional plan. Briefly stated these new plans have in common agreement upon the following division of the scheme of education:—

	Kindergarten	4 to 6	years of age.			
Grades 1 to 6	Elementary	6 to 12	"	"	"	"
"	7 to 8	Intermediate	12 to 14	"	"	"
	Secondary	14 to 18	"	"	"	"

The kindergarten feature is the same as in the present scheme, varying from one to two years according to the resources of the community.

The elementary period from the first to the sixth grade in-

clusive corresponds in general to the same grades of the present scheme. The teaching of the school arts is the principal function of this group. History, geography, and literature are included much as they are in the usual curriculum. The period is recognized, however, as a unit of treatment and as belonging to the pre-adolescent stage of child development.

The intermediate stage includes the last two years of the elementary course, the seventh and eighth years, in which the age of the pupils ranges from twelve to fourteen years. This is the early adolescent stage of development. This is the period when childhood is receding and there is a looking forward to maturity. The programme of the intermediate schools differs from that of the last two years of the traditional elementary course in that it presents several parallel courses of instruction from which the pupil may select one most suited to his aptitudes. These courses lead up to and articulate with corresponding courses in secondary schools, either High or Vocational. In adaptation of the Intermediate School idea to local conditions communities differ in practice. Some apply the principle to the upper grammar grades which remain in the same building with other grades. The plan most strongly recommended, however, is to segregate the seventh and eighth grades in buildings by themselves, conduct the work on a departmental plan, and offer the differentiated courses with a single equipment for special studies serving a large group of pupils. For this plan are claimed superior efficiency, economy in accommodations, and economy in cost of instruction.

From the Interim Report of the Committee on School Inquiry, Board of Estimate and Apportionment, of the City of New York, recently published, I quote the following paragraph from the report of Professor Hanus, which as well as anything I have read sets forth the function of intermediate schools:—

“They afford, as already said, an unusually good opportunity to adapt instruction during the last two years of the elementary school to individual and social needs through differentiated courses of study. The pupils of an intermediate school have reached the age when they are passing through the stage of later childhood and early youth. The physical and mental changes of early adolescence, and the dawning interest in social responsibilities, demand much more careful consideration than they usually receive. The segregation of such pupils in a separate school brings all the special problems of their education into prominence. Consequently the teachers of such schools may, under wise guidance, develop peculiar skill in dealing with them. Such problems are the appropriate differentiation of courses of study to meet individual and local needs; segregation of the sexes, with appropriate modification of

teaching and management for each sex; grouping the pupils in accordance with varying abilities, health, industry, ambitions, and home conditions; articulation of the different courses of study, with high schools and with vocational schools; vocational guidance; organization of pupils for self-government, athletics, club work, social activities; in general, problems connected with the larger freedom appropriate to the age of the pupils, through which they may exercise and develop the insight and self-direction that makes all the rest of their lives now and later more significant and valuable."

In this scheme the High School occupies the same part as in the older order. But it is claimed that both the elementary and the high schools are benefited by the better approach to the high school which is afforded by the differentiated courses of the intermediate schools.

While I do not advocate applying this principle generally to our schools at this time, I think there are elements in our situation to which I have alluded in other parts of this report that make it worth our while to examine this plan to see if it would help us solve some of our problems.

Attendance. The facts of attendance of pupils during the last school year are set forth in the usual statistical tables, where a comparison can be made with other years. It is of immediate interest, however, to know what the present attendance is, how it compares with last year and what its effect is upon the organization of the schools. The following figures will give such information:—

	October		Change	
	1911	1912	1913	1912-13
Whole membership.....	11,872	11,978	12,422	+444
Membership in high school...	1,781	1,819	1,814	—5
“ “ elementary schools.....	9,786	9,847	10,272	+425
“ “ kindergartens	214	211	221	+10
“ “ vocational schools.....	91	101	115	+14
Teachers employed	343	349	365	+16

Sixteen teachers more are employed now than at the same time last year. Of these, two are employed in the high school, two in the Vocational School for Girls, five in the elementary schools, three are cadet teachers and four special teachers. The five additional elementary teachers are distributed as follows: One fifth-grade teacher at the Edgerly, one first-grade teacher each at the Lowe, Hanscom and Bennett, and one assistant at the Hodgkins. The special teachers are distributed as follows: One sewing teacher, one teacher of an atypical class in the Hodgkins School, one teacher of a non-English speaking class and one teacher of an ungraded class at the Bennett School. The two high school teachers are in the Commercial depart-

ment, one a teacher of Stenography and the other a teacher of Spanish and Commercial subjects.

The increase in membership in the elementary schools shown above was 425. On the basis of forty-two pupils to a teacher this increase in the membership would call for an increase of ten teachers. Because of the distribution of the pupils over the city this growth in attendance was met by the addition of five elementary teachers, of whom one is an assistant, two are cadet teachers, and two are regular grade teachers.

Cost of the Schools. For the present fiscal year an appropriation of \$320,000 was made for teachers' salaries and \$36,000 for contingent expenses. Of these sums \$318,957.18 were expended for teachers' salaries and \$35,971.06 for contingent expenses. The corresponding expenditures for 1912 were for teachers' salaries \$305,873.97 and for contingent expenses \$37,030.37. The larger expenditure for teachers' salaries for the last year is in part due to the increase of the salaries of elementary teachers and in part to the increase in the number of teachers employed.

The details of expenditure in the Contingent fund are given in a statement submitted as a part of this report. The salaries paid to teachers and the number of teachers and their individual salaries are also shown. These are the elements which produce the cost of the schools.

Conclusion. In this review of the year I have not repeated the discussion of needs which were presented last year. It is pleasant to note that this year's achievements include provision for some of those needs; others still remain for care. Therefore I include them among the recommendations which I submit below.

The subjects which I specially recommend to the attention of the School Committee are the following:—

Additional provision for exceptional children in the elementary schools including

A. Ungraded classes.

B. Classes for non-English speaking pupils.

C. Classes for older boys who do not fit their scholarship grade.

The provision for teaching cooking to girls in elementary schools.

Additional window space in several buildings.

Extension of the supervision of masters over smaller schools.

Change of Section 82 requiring masters to teach ten hours each in ninth grades so that they may teach more in other grades in their schools.

Consideration of the application of the plan of intermediate schools to local needs.

Introduction of physical training in the high school and the appointment of a physical director who shall also direct sports.

Consideration of the feasibility of awarding diploma credits to High School pupils for outside work of certain kinds.

Completion of the Cutler School at an early date.

Building an assembly hall in the Hodgkins School.

Provision of additional accommodations for elementary schools in East Somerville.

Provision of additional accommodations for the Vocational Schools.

Re-opening of the Lincoln School either in February or September.

Consideration of the best way to provide for the future development of secondary education.

As a closing sentiment I wish to record my appreciation of the spirit of cordiality and co-operation which has existed throughout the schools during the year and to thank the members of the School Committee for their unfailing kindness and support.

Respectfully submitted,

CHARLES S. CLARK,
Superintendent of Schools.

January 2, 1914.

HIGH SCHOOL REPORT FOR YEAR 1913.

Somerville, Massachusetts,
January 12, 1914.

Mr. Charles S. Clark,
Superintendent of Schools,
Somerville, Massachusetts.

Dear Sir: I take pleasure in presenting the following report of the high school activities for the preceding year.

The year of 1913 has marked an epoch in the history of the Somerville High School. Lack of sufficient room has been for fifteen years a source of great inconvenience, a constant hampering of school work, and a decided menace to the health and safety of pupils and teachers. These difficulties are now temporarily removed through the building of additions to the school of twenty-six new rooms, with a large hall and lunch room. For the first time in years pupils and teachers are now meeting in single session, though, to secure this, several rooms are used jointly as home rooms and for the teaching of specific subjects such as mechanical drawing, typewriting, and sewing.

One Session Plan. As a result of these additions the school returned in September to a one session plan after three years of double sessions. This special plan of extended or double sessions has thus been thoroughly tested. It was adopted as the only possible means of housing 2,000 pupils in a building much too small. It was entered upon with unbiased minds and was modified and improved each year. Having given this plan careful observation and study, I am convinced that such an arrangement is neither practical nor advisable for the following reasons:—

(a) *Extension of the school day at both ends.* School began at eight o'clock and closed at four-thirty. This meant inconvenience to the homes because of very early breakfasts; it also meant sending pupils home late in the afternoon. In the winter, particularly, they were obliged to go home after dark.

(b) *Artificial light.* For a large part of the year, the pupils of the afternoon session had to do most of their work by artificial light.

(c) *Double use of desks.* The morning pupils were obliged to share their desks with afternoon pupils. Although this was carried on without confusion, yet it was a source of great inconvenience.

(d) *Little opportunity for conference with pupils.* As the intermission between the sessions was necessarily short, morning pupils were obliged to leave the building promptly and so had little chance to confer with their teachers. On the other

hand, teachers were very much restricted in their power to retain pupils after school for purposes of discipline or instruction.

(e) *A factory method of furnishing an education.* Everything had to be done by clock work and hurriedly. The opportunity for the development of many of the broader issues of school life, such as musical, literary, and debating organizations, was decidedly curtailed.

(f) *A hardship to teachers.* A special arrangement was made for practically every teacher. The greater number were on duty either the first six or the last six periods of the day. The opportunity for conference with teachers, the holding of department meetings and general teachers' meetings were decidedly affected because of this plan, and the school was put to a very great inconvenience.

I am unreservedly of the opinion, therefore, that it is a great gain to the school to be enabled to meet and pursue its activities in one session and as one school with a united force of teachers and body of pupils.

Reorganization of Faculty and Rearrangement of Pupils.

The problem of reorganization and arrangement involved three considerations: First, a plan to avoid excessive traveling on the part of teachers and pupils; second, a plan to group together pupils and teachers pursuing similar courses, and, third, a redistribution of the executive and administrative force to secure the best possible conduct and administration. The placing of the entire commercial department in one building and the preparatory work in the other was perhaps the greatest factor in bringing about relief from congestion, and in securing a decided decrease in walking and stair climbing between periods.

Capacity of the Building. Although we appreciate sincerely this return to normal conditions we must not lose sight of the exact situation regarding the capacity of the building. There are at the present time forty-four class rooms containing in all 1,691 desks. By a double use of drawing rooms, sewing rooms, typewriting rooms, and lecture rooms so that these rooms may be also used as home rooms the total capacity is 1,949. The largest number of pupils present at any one time this past fall was 1,865. The incoming freshman class of 210 will make a membership in February of approximately 2,000. It is very apparent from these figures that the maximum capacity of the school will be reached at that time and that plans must be immediately devised to accommodate the natural growth of the school.

Educational Work of the School. The division of the work of the school into courses under competent heads has led to many interesting innovations and changes.

Preparatory Course. This course, always strong in the personnel of its teachers and in the character of its work, has in no sense suffered by the various changes and additions in its teaching force and course of study, and is in a position, I am confident, to do better work than ever. The resignation last spring of the head of this course, Mr. Sprague, was followed by the election of Mr. Wilkins, for many years an able teacher of preparatory subjects in this school. Mr. Wilkins brings to this course a thorough knowledge of its needs, competent leadership and much enthusiasm.

Pupils were sent from this school in September, 1913, to the following higher institutions:—

Boston University.....	8
Dartmouth College.....	8
Harvard College.....	4
Jackson College.....	1
Mt. Holyoke College.....	2
Massachusetts Institute of Technology.....	6
Radcliffe College.....	3
Simmons College.....	4
Smith College.....	1
Tufts College.....	12
Tufts Dental School.....	3
Wellesley	7
Massachusetts Agricultural College.....	4
University of Wisconsin.....	1
Worcester Polytechnic School.....	1
Framingham Normal School.....	4
Lowell Normal School.....	1
Salem Normal School.....	12
Massachusetts Normal Art School.....	5

Total	87
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The present Senior class is preparing for the following schools and colleges:—

Boston University.....	3
Colby College.....	1
Dartmouth College.....	4
Framingham Normal School.....	3
Fitchburg Normal School.....	1
Harvard College.....	20
Holy Cross.....	1
Jackson College.....	1
Normal Art School.....	4
Massachusetts Agricultural College.....	6
Massachusetts Institute of Technology.....	13
Radcliffe College.....	7
Salem Normal School.....	7
Simmons College.....	5
Sargent School.....	2
Smith College.....	2
Tufts College.....	16
Tufts Dental School.....	2
Tufts Medical School.....	1
Wellesley	3

Total	102
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The school has had for many years the privilege of sending pupils by certificate to the colleges represented by the New England College Entrance Examination Board. This Board represents practically all of the colleges of New England, excepting Harvard and Yale. This certificate privilege is granted every three years on the basis of the excellence of the records maintained in college by the pupils sent from the school. In April, 1913, the certificate right of our high school was renewed for three years.

Commercial Course. This department has materially profited this year in equipment and space allotment. Two well equipped bookkeeping rooms, two typewriting rooms, a commercial geography room, three rooms devoted exclusively to stenography, all combine to place the department on a much better working basis. The organization of a school bank (in conjunction with one of the savings banks of the city) is contemplated in the near future.

General Course. This course remains one of the steady hard working courses of the school. One innovation during the past year has been the establishment of a Community Civics course for first year classes. It is the purpose of this course to interest and acquaint pupils with the civic conditions of their own city and to study various matters such as health protection, taxation and government at close range.

Manual Arts Course. A considerable opportunity for development has been accorded this course during the past year, and with the new rooms, wholly or partially equipped, much more extensive and thorough work is possible. The boys taking Manual Training have made all of the benches in one of the new rooms, besides many partitions, and tool closets. A newly equipped sewing room for girls is very popular and supplies a long felt want. In the cooking department the girls have turned their work to practical use by supplying lunches for a limited number of teachers and pupils.

Departments. The heads of departments have been making a concerted effort to systematize the work and to adapt the subject matter and method of treatment in each class to its particular course. The following table shows the number of teachers and pupils coming under the direct supervision of each department head:—

	No. of Teachers or Part Teachers.	No. of Classes.	No. of Pupils.
English	13	64	1,850
History	10	40	1,152
Mathematics	12	41	1,174
Latin	10	23	550
Greek, German.....	9	20	331
French, Spanish.....	10	36	913
Manual Training and Mechanical Drawing...	5	28	494
Drawing	2	18	240
Science	5	23	626
Stenography and Typewriting.....	5	36	776
Bookkeeping, Business Practice, etc.....	6	32	866
Domestic Science and Arts.....	2	14	194

Subjects and Their Cost. The different subjects taught in the school with the proportionate cost for instruction is given in the following table:—

	No. of Pupils.	No. of Classes.	Average No. of Pupils per Class.	Total No. of Reci- tation Periods.	Individual Pupil Recitation Units.	Total Cost of Instruction.	Cost per Pupil per Recitation.
English	1,850	64	29	253	7,400	\$10,660	.036
Elocution	649	23	28	23	649	900	.034
History	1,152	40	29	133	3,881	5,309	.034
Mathematics	1,174	41	29	170	4,910	7,176	.036
Greek	66	5	13	25	330	1,530	.115
Latin	550	23	24	115	2,750	7,006	.063
German	365	15	24	75	1,825	3,363	.046
French	594	24	25	120	2,970	5,134	.043
Spanish	189	7	27	35	945	1,900	.05
Biology	54	3	18	18	324	570	.043
Chemistry	121	5	24	30	726	1,590	.054
Physics	150	5	30	30	900	1,873	.052
Science Lectures	97	2	49	5	233	371	.039
Physiology	204	8	26	8	204	330	.04
Manual Training	204	13	13	64	1,031	3,208	.077
Mechanical Drawing	290	15	21	38	725	2,909	.10
Freehand Drawing	226	10	15	50	732	1,434	.048
Stenography	428	16	27	74	2,002	2,650	.033
Typewriting	490	20	24	60	1,250	1,400	.028
Bookkeeping	123	6	21	30	615	938	.038
Penmanship	121	3	40	6	242	377	.038
Business Practice	394	13	30	65	1,970	2,577	.032
Commercial Law	47	2	24	5	117	412	.088
Commercial Geography ..	79	4	20	10	197	696	.088
Cooking	99	6	17	18	297	900	.075
Sewing	95	8	12	16	190	400	.052

Afternoon Conferences. A new plan has been recently put into operation whereby each teacher is in attendance one afternoon each week to help and advise pupils. Backward pupils, pupils who have lost recitations through absence, and pupils who need help to overcome some doubtful point will thus have opportunity to work with the teacher personally. I am confident that this plan will result in great profit to pupils and teachers alike.

The Large School: Its Strong Points. After more than two years' experience in a school of approximately 2,000 pupils, I am prepared to speak enthusiastically of the following strong features of the large school:—

(a) *Supervision by trained experts.* Heads of courses and of departments, chosen because of their peculiar fitness in their own lines, are prepared to give trained supervision and expert advice to the teachers under their charge.

(b) *Specialized teachers.* Teachers are engaged to teach subjects in which they have made especial preparation and are especially trained. This plan secures the focusing of effort and more careful and skilled instruction.

(c) *Larger equipment.* The cost of equipping well one large school is not only much less than that for several smaller schools, but also allows the purchase of special equipment without material increase of expense.

With sincere appreciation for the many good things that have come to the school during the past year and with hopeful anticipation for a successful year under new conditions, I am

Very respectfully yours,

JOHN A. AVERY,

Head Master.

REPORT OF THE VOCATIONAL SCHOOL FOR GIRLS.

Mr. Charles S. Clark,

Superintendent of Schools.

Dear Sir: The courses offered at the Vocational School for Girls remain the same as last year; except that some lines of work have broadened considerably, namely in the Household Arts course, where home making includes dressmaking and millinery with trade standards, and where cooking and the allied subjects of household management are taught intensively with a view to earning value.

This Household Arts course also offers to those with ability, distinctive lines of training for catering, food shop, lunch room or institutional management. In the Tea Room, which is operated in connection with the school, experience is gained in serving lunch daily and in planning menus the cost of which will not exceed a certain sum. Both at the school and Tea Room the subjects are treated in a practical way that will be of help to the individual student.

The demand for trained accommodators has been greater than the school can supply. Several of the girls are training in this accommodator work especially and will give additional study to it next year.

It is interesting to see what food has been prepared for sale since September. The following is a partial list: Twenty dozen small cakes, eleven large cakes, twelve dozen macaroons, cookies, etc., twenty-eight dozen rolls, four wedding cakes, preserves, chowchow, jelly, etc.

Every week ten loaves of bread and three to six dozen macaroons are sent to a tea room in Boston; besides these are the pies and plain and fancy cakes that have been used in the Tea Room.

This year the first class will graduate. This class includes all the students who have worked at least three months at their trade previous to graduation. Tests have been given during the year to trade workers by part time work in the shops, and to the household arts students by housekeeping and the preparation of meals in their own homes, and order cooking and accommodator service at school.

Five girls in the millinery class were placed last spring and worked for the season. At the beginning of the dull time other positions were found for them, which proved so satisfactory that only one girl returned to the trade. Earning a living by millinery is felt to be so precarious that students entering the school are advised to take the fuller Household Arts course as this offers greater opportunity for steady employment.

Four girls were placed in dressmaking shops and still hold these positions at advanced wages. Gratifying reports have come from employers regarding these girls—reports of their adaptability, interest, good training, with assurances of steady employment. A list of the employment and earning wage of the pupils placed last March follows:—

One placed in a dressmaking shop at \$6.00, now earning \$7.00; one placed in a dressmaking shop at \$6.00, now earning \$7.50; one placed in a dressmaking shop at \$5.00, now earning \$6.50; one placed in a dressmaking shop at \$6.00, now earning \$6.50 (has worked one month); one placed in a millinery shop at \$6.00 for season, afterwards in manufacturing company as stock girl, later assistant bookkeeper at \$8.50; one placed in millinery shop at \$6.00 for season, afterwards in manufacturing at dressmaking and neckwear at \$8.50; one placed in a millinery shop at \$6.00, now assistant trimmer at \$9.00; one placed in a millinery shop at \$5.00, now working at photography at \$6.00; one placed in a millinery shop two seasons, now preparing food at home for an exchange; one placed at lunch counter at \$5.00, now earning \$7.50 to \$8.50 in salesroom.

It has been interesting to learn what some of the girls are doing at home with the instruction given at school.

Nearly all are doing some cooking, and eight are preparing meals regularly. One girl reports that her father prefers her cooking to her mother's and so it is nearly all done by the girl herself. She prepares at home what has been learned at school that day. Another girl had entire charge of the house, the buying of food and preparation of the meals for the three weeks her parents were away.

One girl helps pay her tuition by mending and altering clothes at home.

Another saved money to buy a dress form, and is not only making her own dresses, but several simple house dresses and skirts for a neighbor.

Notes of appreciation have come from some of the parents. When word was sent to one mother that her daughter would graduate this year, she replied that she preferred that her daughter should stay in school another year as she realized all the good the school had done for the girl.

Another girl was placed this winter and proved satisfactory, but came back to school at the request of her mother. This has all been very gratifying to those who have labored so faithfully, for it shows that while the girls can make good in trade the extra time given to school is desired by the parents.

Evening Classes.

The evening classes have been well attended, the enrollment being eighty at the Vocational School, with a waiting list,

and forty-five at the Clark Bennett. The short unit course has proved popular, for it enables a woman who cannot give up many evenings during the winter, to come for a short term until she has learned to accomplish one definite thing, as the making of a dress, the making of a hat. The courses vary in length from ten to twenty lessons according to the subject taught, and the success of this arrangement has been demonstrated by the fact that those on the waiting list could not be accommodated until January, when some of the courses were finished.

It has been interesting to learn that some of these students are doing dressmaking outside for friends; that one woman has been advanced in the shop where she is working, and another has been helping a dressmaker two days a week, with her most important work.

High School.

In October cooking for first year students was started at the High School, 105 electing this study. Lunch is served four days a week to twenty-four teachers and about forty girls. It is expected that when the new lunch room and kitchen are opened the advanced classes will have cooking on a larger scale that will furnish a hot lunch to 500 students.

Classes in dressmaking were started in November elected by seventy-four students. It is planned to carry this course through the four years so that at the end of that time a student will have such a thorough knowledge of dressmaking in all its branches that she can do her own home sewing or go into business for herself.

Grade Sewing Classes.

The sewing in the graded schools has been somewhat changed to give the pupils more definite problems that will lead to the High School or the Vocational School without repetition of work in either of those schools.

Most of the model work has been discarded and work is applied directly to the undergarments and children's dresses that are made.

With machines introduced into the seventh and eighth grades it will be possible for the teacher to see that the child has her instruction under competent supervision and no sewing will be taken out of the class until completed.

It is hoped that in the near future dressmaking can be taught in the ninth grades for the benefit of children who are obliged to leave school at the completion of their grammar school education.

Very respectfully,

MARY HENLEIGH BROWN,
Director.

REPORT OF THE SOMERVILLE VOCATIONAL SCHOOL FOR BOYS.

Mr. Charles S. Clark,

Superintendent of Schools.

Dear Sir: The Vocational School for Boys offers, at present, four trade courses, namely, cabinet making, pattern making and carpentry in the department of woodworking, and general machine shop practice in the department of metal working.

Since September, 1913, the division of time has been: Two days in the shop, and one day in the classroom devoted to related and non-related subjects including drawing, English, mathematics, history, civics and hygiene. Thus the entire school is composed of three divisions. Each division has its metal workers and its woodworkers, also its proper quota of first year boys and second year boys. This time allotment has proven entirely satisfactory and meets the needs of the students and of the shop and study work much better than the former half and half arrangement.

As the waiting list does not hold on for more than three months after the opening of school the membership at present is forty-seven, or one less than the capacity of the school. Of these two are from the local high school, six from the Morse school, five from the Knapp, five from St. Joseph's parochial school, three from the Pope, two each from Edgerly, Forster, Glines, Highland, Bingham and Carr schools, and one each from the Bell, Bennett and Prescott schools. Three are non-residents, of whom two are from Stoneham, one from Peabody, and three others are new residents. Classified by grades, five are from high schools, seven are grammar school graduates, three are from the ninth grade, seven from the eighth, twelve from the seventh, eleven from the sixth, and two from the fifth grade. During this school year (from September, 1913) fifty-seven boys have been enrolled. The present membership of forty-seven is thus 82.5 per cent. of the enrollment as compared with a membership of 64.7 per cent. at this time last year. Each year some excellent boys have entered the school and have remained to finish their course. Each year has witnessed the enrollment of a larger number of such boys and this year, as a comparison of the registrations will in some respects show, the highest average of all has been reached. In this particular, as in some others, the school is better able to demonstrate its worth to the boy, to the city, and to the state. But even better things are to be expected. This type of school is not "intended for naturally backward or defective children" nor for "any boy who needs or wants to learn how to work." He must be fit to follow a

skilled trade and make a success of it. He must be fit therefore to receive instruction and training required for such a trade. The satisfactory completion of the grammar school course is, in general, a sufficient qualification for entrance. Exceptions to such a rule should be made only by the principal after due investigation.

Fifteen boys completed their courses in 1913, six from the wood department and nine from the metal department. Of these six woodworkers and seven machinists found places at their trades, some in shops and others in house building and contract work. One of the others was needed in his father's store and one decided to take a position with a banking house. Fifteen will be graduated in 1914, nine woodworkers and six machinists, and their prospects, in view of the probable improvement in industrial activities, are at least as bright as those of their predecessors.

A somewhat detailed investigation of the record of boys who have spent six months or more in the school leads to the conclusion that as compared with those who drop out of the grammar schools, ostensibly to find work, their circumstances have been improved by their attendance. They hold their jobs longer, find places more quickly, and their progress is more rapid.

The call for a department of automobile repairing is growing more insistent. The school auto was finished during the year and has been in commission as delivery truck for the school for several months. It is operated by a student who is duly licensed, and it is giving entire satisfaction both in efficiency and economy. But it needs a place to stay. During December seven students took a job at the water works shops rebuilding a Packard touring car for truck service. This car was found by the Vocational School for the Water Department but the school had no place to keep it while putting it in shape to use. Auto repairing and building has come to be one of the principal branches of mechanical industry and offers an attractive field for trained men. This line of training is interesting in itself, it presents a wide variety of good practice and is in demand by the boys.

The school has reached its limit of growth until more room is provided. Much valuable space is wasted in the basement and should be cleared and reclaimed for shop use, for which it is highly suitable.

If room could be found in any convenient part of the city it would be desirable to establish a department of electricity and also one of printing. Both these departments could be entirely self supporting if work were supplied from city requirements. These trades are thriving and stand high in wages and opportunities.

Financial Statement.

(Calendar Year 1913.)

EXPENSES.

Construction	\$232 29
Equipment	394 99
One-half maintenance	3,171 50
Supervision	83 88

Total expenditure	\$3,882 66
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RECEIPTS.

Work done in:	Material	Labor	
Wood dept.	\$266 52	\$188 39	
Metal dept.	100 00	205 70	
Total	\$366 52	\$394 09	(\$760 61)
Work done for:	City	School	
Wood dept.	\$287 30	\$167 61	
Metal dept.	16 50	289 20	
Total	\$303 80	\$456 81	760 61
Stock on hand:			
Wood dept.	\$120 00		
Metal dept.	150 00	total 270 00	
Cash on hand		40 51	310 51
			1,071 12

Net cost of school for year	\$2,811 54
Per capita cost (membership of 52)	54 07

Number of commercially valuable jobs done in year:

Wood department 128 jobs
Metal department 147 jobs

Total	275 jobs or 5 3-10 jobs per boy.
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Respectfully submitted,

E. MINOR MORSE,

Principal.

REPORT OF THE SUPERVISOR OF MANUAL ARTS.

Mr. Charles S. Clark,
Superintendent of Schools,
Somerville, Mass.

Dear Sir: The work in Manual Arts for the school year 1912-1913 has followed the outline in last year's report. The work completed and the results accomplished have been in accordance with the aim of the course, without, I think, taking time and effort from the other subjects of the curriculum.

In the lower grades the Manual Arts has come to be recognized less as a separate subject, and more as an assistant to greater interest in other subjects.

In the upper grades the drawing is correlated with the different lines of handwork.

The so-called "busy work" of previous years has almost entirely disappeared and "centre work" is again emphasized. In this work the teacher as well as the pupil has become intensely interested, thereby keeping in touch with vocational and industrial activities which were not thought of heretofore. The work gives an outlet for the child's physical energy, providing means of occupation with familiar material, and enabling him to acquire a technique and a degree of skill in the fundamental operations of vocational activities. The centres selected have been school, home and personal activities, which have proven so absorbingly interesting that much research work has been brought forth.

This has been a great surprise and pleasure to the teachers and I believe a great profit to the pupils.

I wish to commend Miss Gale, supervisor of the elementary schools, and the teachers for their keen interest and for the excellent results obtained.

No radical movement has been made to industrialize the Manual Arts in the grades, yet the work at present lays the foundation for any industrial work that the school system may undertake in the future.

In introducing any craft in the curriculum of our schools, it is of the utmost importance that we carefully scrutinize its educational possibilities, learn just wherein its values lie, and decide the approach which will yield most abundantly in return for the time spent.

Sufficient numbers of teachers must soon be trained, and broadly trained, to teach the Manual Arts, not as mere workmen, but as individuals who realize that education for the

masses today involves a practical and a broad knowledge of many things and the specific knowledge of, and power to do some particular thing.

In the meantime it will be the endeavor of the present work to give a general knowledge of the arts which will be of service to the pupils after they leave school and at the same time assist in the development of judgment, culture and taste.

An increase in the amount of time given in the upper grades to the drawing and manual training has resulted in expected improvement. I recommend that every boy receive instruction in freehand drawing and design.

In the high school the work has become more and more industrial in character.

The new course of study has been planned as follows:—

First—The Manual Arts work of the first two years to be both cultural and industrial in character and to represent as many fundamental mechanical activities as possible. It should be taken by all students.

Second—The Manual Arts of the last two years to be specifically industrial in character and designed to serve the needs of those who will enter vocational service upon leaving High School.

The Manual Arts Course and the manual training of all the courses have been extended to the third and fourth years and work in advanced wood work, sheet metal, machine and electrical work is now outlined.

The new equipment is now being installed by the pupils as a part of their regular work, with good results.

In addition to the regular class instruction in the courses, I submit a partial list of work completed by pupils for the permanent school equipment:—

One office desk; one office table; twenty-four galvanometers for Physics Department; twenty-four inclined planes for Physics Department; fifteen tables for Physics Department; three meter stands for Physics Department; twenty-five bulletin boards; twenty-four book racks; four sand trays for grades; one lumber rack; three stock rooms; three hat and coat stands; four cabinets; one glue table; one cold air box; two coat lockers; one desk platform; one shelf and coat hanger; one partition; two wall closets; rebuilding foundry benches; building benches, rooms nine and ten; one blue print frame; resurfacing twenty-five benches; rebuilding drawing board case; frame for fitting room; rebuilding case in cooking room; fifty blackboard rulers; one notebook cabinet; repairing twenty-six chairs; repairing ten desk covers; refinishing ten desk covers; twenty-eight ink stands for drawing room; one tool cabinet; one oak table top; one office cabinet; two work boxes; six keyboards; two letter files; lockers for benches, room nine; shelving in

ten closets; setting up engine lathe; repairing shafting, belting, lathes, lathe parts, etc.; moving and re-adjusting entire Manual Training Department.

Respectfully yours,

HARRY L. JONES.

December 24, 1913.

REPORT UPON QUESTIONNAIRE.

On November 25, 1912, the School Committee authorized the Superintendent of Schools to send two high school teachers to the training course in vocational guidance which was being conducted by the Vocation Bureau, 6 Beacon Street, Boston. In accordance with this action two teachers, a man and a woman, were asked by the Superintendent of Schools to take this course. The former was obliged by unexpected causes to withdraw from the course soon after beginning it but the latter continued through the year. In accordance with the policy of instruction followed in the course, this teacher was asked to take some phase of high school experience for investigation, study and report. After consultation with the Superintendent of Schools she determined to make the subject of her study, the transition from grammar school to high school, and the attitude of high school pupils towards the opportunities provided in the latter. Accordingly a questionnaire was prepared, printed at the expense of the School Committee and given to pupils as hereafter described. The Somerville High School then had a morning session for the three upper classes and an afternoon session for the lowest class.

Nearly eighteen hundred papers were returned in answer to this questionnaire, of which more than twelve hundred have been examined and the answers thereon tabulated by the teacher, with the assistance of high school girls. The results of this study are embodied in the following tentative report which Miss Bessie D. Davis, the teacher who made the investigation, has prepared. It is now proposed to carry on the work thus begun by examining the remaining five hundred answer papers, reviewing the data already used to verify its conclusions and adding such new studies of the matter as may seem profitable. To this work two teachers who now represent the Somerville High School in the Vocational Course will devote their efforts, as Miss Davis has had to give it up by reason of removal to New York City.

CHARLES S. CLARK,
Superintendent of Schools.

December 1, 1913.

Questionnaire for High School Pupils

Name Age Yrs. Mos. Class Room

1. Do you expect to complete a course of four years in the High School?
2. If not, how many years do you expect to stay?
3. If you do not expect to remain four years, what is the reason:—
 - (a) Financial conditions?
 - (b) Lack of success in school work?
 - (c) Desire to go to work?
 - (d) Loss of interest?
4. Please underline the course which you are now taking:—
 - (a) General; (b) College Preparatory; (c) Manual Arts; (d) Commercial; (e) 2 year Commercial.
5. What led you to choose this course:—
 - (a) Advice of parents, teachers, friends?
 - (b) Success of others?
 - (c) Belief in your personal qualifications and ability for the work of this course?
6. Do you know what studies are included in this course:—
 - (a) In the first year?
 - (b) In the second year?
 - (c) In the third year?
 - (d) In the fourth year?
7. What qualifications do you think you have for the work of this course?
8. What line of work do you intend to follow after you leave High School?
9. What do you understand to be the requirements of this work?
10. How have you ascertained these requirements?
11. Is this the work which you really desire to do?
12. What have your parents advised?
13. To what extent, if any, have possible financial benefits influenced your choice?
14. If this is not the work which you really desire to do, why are you not preparing to follow your personal choice?
15. What service to the community are you planning to render through your vocation?

EXTRA:

A. For College Preparatory Pupils:—

1. For what college are you preparing?
2. Why have you chosen this college?
3. What are its requirements?

B. For Scientific, Normal School, Normal Art School, etc., Preparatory Pupils:—

1. For what school are you preparing?
2. Why have you chosen this school?
3. What are its requirements?

NOTE:—Please answer questions in full where space is given; otherwise, as briefly as possible. The purpose of this inquiry is to help in the conduct of the school rather than to be inquisitive concerning the personal affairs of the pupils. Please answer frankly. Replies will be considered confidential.

January, 1913.

BESSIE D. DAVIS.

A printed copy of this questionnaire was, without warning, given each pupil of the upper three classes one morning last February. One period, about forty-five minutes, was allowed for the answering of the questions. No attempt was made to have absent pupils answer them later. The same plan was followed a week or so later in an afternoon session with first year pupils.

The present report is based on only 1,226 of these papers. It has been impossible to complete it; some 528 yet remain. These 1,226 include, however, every year and every course, and are, therefore, enough from which to draw conclusions. No attempt has been made to reduce all the answers to tables and schedules. The writer prefers to give summaries or actual quotations which give real insight into the pupil's mind and heart.

For the first two questions, however, a table seems most illuminating:—

QUESTION No. 1.

Years	No of Pupils	Average Age	Yes	No	?
1913.....	188	18.27	184	0	2
1914.....	240	17.29	233	1	5
1915-A-B.....	394	16.55	361	16	5
1916-A-B.....	230	15.36	187	32	7
1917-A.....	174	14.72	137	29	6
	1,226		1,102	78	25

QUESTION No. 2.

Years	—1	1 yr.	1--2	2	2--3	3	5	?
1913.....					3			3
1914.....						2	5	1
1915-A-B.....		1	1	11		3	1	1
1916-A-B.....		2	3	23	3	1		4
1917-A.....	1	3	3	20	1			
	1	6	7	54	7	6	6	9

It is evident that there is less certainty in the minds of first and second year pupils regarding the length of stay in the school. The large number of two year statements is doubtless due to the fact that most of these pupils belong to the two year Commercial Class. The reasons given for less than four years stay fall under the respective headings as follows:—

	a	b	c	d	Other Reasons
1913.....					
1914.....	1	1	2	2	4—to prepare at Exeter Academy.
1915-A-B....	1	2	4	1	4—3 other schools; 1 moved away.
1916-A-B....	9	3	8	1	6—5 other schools or business.
1917-A.....	10	0	9	2	5—4 other schools; 1 “account of knowledge.”
	21	6	23	6	19

Financial conditions and desire to go to work are evidently the chief reasons.

Of the 1,226 pupils 154 are in the General Course; 489 in the College Preparatory, which includes Normal and Scientific pupils also; 29 in the Manual Arts Course, which is new and not well understood; 480 in the Commercial Course; 56 in the two year Commercial, and 1 special student. In the Senior and the Junior classes more are in the College divisions; in the Sophomore and the Freshman classes, the Commercial Course predominates.

It is in the reasons for choice of these courses that special interest lies; and in the changes of course. Of the latter 11 were mentioned. Several of these are worth mentioning:—

1. Started in B. Changed to A—due to poor marks and death of father.

2. Changed to A because he had not definite plan at first.

3. Changed from A to B at the beginning of the fourth year, etc. That they and others needed guidance is shown by such reasons for choice as these:—

1. “Chosen at random.”

2. (D) “Mostly because there was nothing I really wanted, and I had to take something.

3. (A) "Did not intend to go to college or take business course.

4. (D) "Didn't know what else to take."

In view of these answers, one is not surprised to find that of 1,157 answers to question six, only 426 indicate knowledge of the work of the four years; 145 of three years; 272 of two years; and 275 of the first year. The first and the second year pupils know little about the years ahead; no wonder they make serious errors in choice.

Their ideas of their qualifications for the course taken range from "None" or "I'm sure I don't know" to statements of personal factors, special abilities or interests, etc. Among the most interesting are these:—

"Ability to do mathematics better than many girls."

"A brain and ability to study until I get what I want."

"Willingness to work hard."

"Ambition, honesty, commonsense, good health, etc."

The occupations to be followed later cover much ground. I have divided them into four groups for comparison:

1. Commercial, including Bookkeeping, Stenography, etc.

2. Future study, including College, Normal School, etc.; Professional and Semi-Professional work, including Medicine, Law, Music, Art, etc., and Trades. Of the 1,226 only 11 indicated desire to engage in the work of trades. Many already know what profession they purpose to engage in, and many plan to go into Commercial life; 172 as stenographers; 36 as bookkeepers; and 56 in office work.

Knowledge of the requirements of these occupations is limited. Personal factors are named in much the same way as in answer to question seven. Business factors: ability to work; appreciate the value of time; willingness to do what is required, and more if necessary are mentioned. Special demands are spoken of in very few instances; viz: apprenticeship or special training. Is it any wonder that lacking information concerning employments, one says later, "There is nothing to take to be a nurse"; and another, that he made a mistake in taking the wrong course and cannot, therefore, prepare for the vocation he desires?

Information has been gained from many sources: people, reading, inquiry, experience, observation, and thought. One suggested examining and checking off subjects already taken. And one, bewildered, asked for advice. His case was followed up with care.

In the majority of cases pupils are doing the work they really wish to do. Answers to question 14 show that

financial conditions and family objections are the chief obstacles. But I also find as reasons:—

“I made a mistake in taking the wrong course.”

“I couldn’t change my course.”

“I do not want to carry out the course.”

“No personal ability for any line of work.”

These are the people likely to become discouraged and leave school.

That parents know too little about the school, and play too small a part in the child’s choice of work there, is indicated by the next group of answers:—

	Agree.	Disagree.	Nothing.	Own Choice.	General Advice.
1913.....	127	10	7	16	6
1914.....	145	25	13	24	1
1915-A-B.....	287	27	8	17	
1916-A-B.....	130	18	7	5	3
1917-A.....	111	15	4	5	12
	800	95	39	67	22

Unfortunately too many of the first group may be like the case of one pupil, who said parental advice was, “Think and decide; then let me know to approve or disapprove.” One has reason to believe that such is often the case, because so many say that they made their own choice. As one puts it, “They have given a good deal of advice, but let me be guided by my own wishes.” Another says: “Nothing. I chose this work of my own accord. I am putting myself through school.” Still another says, “No advice to give.” And a boy whose longing for ornithology has not yet been met by information or help, wrote concerning parents’ advice, “Nothing. Absolutely nothing.” His mother died only a few years ago.

Financial benefits have much to do with choices. 283 say frankly that it did. One says that he has a brother going to college. Another, “Must support parents.” “Family need support; father is not living.” “College graduates obtain better paying positions.” “Want to earn money for a musical career.” “Most money in it for me.” “I shall have to work my way if I go to college.” “If I really knew what I should like to become, I should go to college: but I think that it would be a waste of time to do something that I do not know anything about.” Can anyone with sympathetic spirit and understanding heart fail to respond to the appeal in this statement? The opening is there; one needs only to follow up the boy, and he is appreciative and grateful.

Service to the community was to many a new idea. Twenty admitted that they had no thought about it, and fifty-eight did not know what they could do. Some cared little for others.

One said, "None. I am going to look after myself first." "None. I expect to be a peaceful citizen," answered another.

Many, however, showed much thought and understanding of what service might mean. I grouped the answers under the headings: through work, social help, as a citizen, through character, all possible. Some were, like the last, mentioned vaguely. Others were very specific. Here are several typical replies:—

"Hope to be instrumental in alleviating suffering caused by cancer."

"Aid city government."

"Be a credit to S——." (Somerville.)

"The better I am educated, the more I can do for the community."

"To better conditions where I live."

"To lay out better cities."

"Design public buildings so that they will last."

"Defend innocent men and women who are accused of crime."

"Help unfortunate people."

And with unintentional humor, and perhaps, sad comment on what he has heard and read, "Justify wrong." To awaken the minds of *all* pupils to the idea of "Noblesse Oblige" is surely the duty of any school.

Of these pupils many are going to colleges and other higher institutions. Harvard, Tufts, and Massachusetts Institute of Technology attract the larger number of boys; Radcliffe, Wellesley, Simmons, Salem Normal School, and Boston Normal Art School, of the girls.

Answers with regard to choosing college, etc., and requirements, were fewer in number. Only 357 answered the former, and 282 the latter. Location, standard of scholarship and instruction courses offered, time required, reputation, experience and recommendations of others, type of graduates, cost of tuition, etc., all are mentioned in some way or other. It is, however, plain that information is general and limited. Knowledge of requirements seems to be still less. Perhaps many, like one, "leave it to the principal" or keep "a book of requirements at home," etc. Apparently they little realize that requirements differ as do colleges.

It is rather encouraging to find some opposition on the part of the parents, which must arouse the pupil. Some parents urge the choice of definite instead of indefinite or drifting atti-

tude; some have such radically different choices as music, *not* stenography, or private school instead of office work. Even parents disagree, and we find father wanting his boy to be a surveyor, and mother choosing for him a business course.

Not, however, until grammar school masters and teachers work more closely with high school masters and teachers, and both groups work with pupils and parents, can the needs indicated in these papers be met. Every master of a grammar school should visit the high schools of his city, study their work, and be ready with co-operation of the high school teachers to give such information as will help pupils to choose carefully courses which will look far ahead. Then in the high school there should be flexibility enough to permit of re-adjustments. There is no reason why those in the wrong course by mistake must stay there. Finally, the high school must give to the pupils, whether they ask it or not, definite, clear, simple information regarding the work they may do in the world. Not until all this is adequately done will the gap between high school and grammar school on the one hand, and high school and after-life on the other be bridged.

RECOMMENDATIONS.

A.

I. That in the High School one or two teachers be officially designated Vocational Counsellors with time allowed for Vocational Guidance among the pupils. If possible one of these Counsellors should be a man.

II. That a committee of five or more teachers be appointed to work with these Counsellors in such ways as the latter may find necessary and advisable.

III. That a group of citizens, men and women of recognized character, experience, and standing in profession, business, and trade, be invited to co-operate with Counsellors and committee by allowing themselves to be interviewed by such boys and girls as the aforesaid Counsellors may deem it necessary to send to them for information or advice.

IV. That by means of talks, books read, compositions, etc., *all* pupils be given at least a general idea of occupations and their requirements.

V. That the questionnaire papers of last year be at once used in "follow up" work among the pupils. Special attention should be given papers marked or starred.

VI. That advisors endeavor at once to make sure that pupils have read the entire course of study, understand what is offered throughout the four years, and have reasonable basis for choice of course.

VII. That effort be made to have pupils going to higher institutions obtain and read carefully the catalogue, etc., of the school or the college which they plan to enter, find out as much as possible about the requirements and the life of that and other schools and colleges, and choose with some thought and reason.

VIII. That if possible information be obtained and given pupils, especially those of third or fourth year, concerning scholarships, loans, etc., offered by state, clubs, societies, colleges, etc., to first year students in colleges and kindred institutions.

IX. That pupils obviously unfitted for the work of any course be transferred *as soon as possible* to the course to which they may be found by teachers and Counsellors to be adapted.

X. That through meetings or personal conferences (possibly through the formation of a Parents' Association) greater co-operation be brought about between High School teachers and parents, and High School teachers and Grammar School masters and teachers.

XI. That in Ethics, in conferences with advisors, in class-work, or through some other means, greater emphasis be placed on personal service as the ultimate goal to be sought, whatever the lifework chosen and the return due for the education received.

B.

I. That the Superintendent make a request, equivalent to demand, that *every* Grammar School master visit, while it is in session, the High School, and acquaint himself or herself with the course of study and the requirements of the school.

II. That the Grammar School masters and assistants be required early in the year to study their pupils, find out what they plan to do at the end of their Grammar School course, and seek to help them choose carefully and wisely school and course of study or occupation, using all possible effort to prevent their choice of work for which they are plainly not fitted.

III. That, as the Superintendent suggested last year, meetings of parents and graduating classes of Grammar Schools be held at intervals during the year in the respective schools, such meetings to be addressed by heads of departments or those in charge of the various courses in High School and Vocational Schools.

C.

I. That in all schools effort be made to find out when and why pupils leave school, and to keep in touch with them after they have left.

II. That pupils be required if possible, as in Boston, to give teacher or Vocational Counsellor one week's notice of intention to leave.

III. That through conference between parent and teacher, and pupil and teacher, effort be made to keep the pupil in school if possible.

IV. That pupils be sent for employment certificates only after careful investigation of the merits and the needs of their respective cases.

Somerville Playgrounds Association.

The playground season for 1913 opened on July 7 with paid supervision on the following grounds:—

BOYS' GROUNDS.

Broadway
City Field
Glen Street
Tufts Street
Joy Street
Kent Street
Lincoln Park

GIRLS' GROUNDS.

Bingham
Broadway
Central
Davis
Hodgkins
Kent
Perry
Bennett

As in former years the work was conducted under the joint control of the Playgrounds Association and the School Committee. The closing events were an athletic meet for boys, held on Monday, August 18, and a play festival on Central Hill held on Tuesday, August 19.

Following is a statement of receipts and expenditures for the season:—

Receipts:—

Balance from previous account . . .	\$117 51
Donations and subscriptions . . .	1,326 22
Interest on deposit in bank . . .	2 79

\$1,446 52

Expenditures:—

Instructors	\$708 40
Supplies	341 32
Printing	47 50
Band for Festival	70 40
Rent of Fiske Avenue land for school garden	15 42
Labor	68 67
Services of janitors	75 00
Services of policeman	45 00
Baths	1 98
Teaming, expressing and postage	26 10

\$1,399 79

Balance on hand 46 73

\$1,446 52

\$1,446 52

PLAYGROUNDS.**Receipts and Expenditures, 1913.**

Amount appropriated by City Government		\$2,500 00	
Revenue from baths		37 57	
Bills paid from Contingent Fund Account		381 27	
Paid for salaries of supervisors and instructors	\$1,689 00		
Paid for equipment:—			
Swings, teeters, giant strides, slides, etc., (including material used for installing)	\$422 00		
Trees	15 48		
Hose	14 35		
Labor and teaming	76 52		
		528 35	
Athletic supplies:—			
Baseballs, bats, basket balls, etc.	\$218 50		
Medals	6 00		
		224 50	
Miscellaneous supplies and disbursements:—			
Printing	\$24 50		
Labor	37 88		
Teaming	21 50		
Sand	5 00		
Various	14 10		
		102 98	
Baths:—			
Salaries of attendants	\$204 00		
Supplies, including laundry	140 86		
		344 86	
School Gardens:—			
Supplies	\$13 00		
Labor	15 50		
		28 50	
Balance unexpended		65	
	\$2,918 84	\$2,918 84	
Expended by Somerville Playgrounds Association		1,446 52	
Grand total of all money expended for playgrounds		\$4,365 36	

**REPORT OF THE SCHOOL SAVINGS BANKS.
January 1, 1913, to December 31, 1913.**

	Balance Jan. 1, 1913.	Amount Deposited.	Amount Withdrawn.	Amount Transferred.	Balance Dec. 31, 1913.
Prescott . . .		\$276 15	\$26 95		\$249 20
Hanscom . . .	\$25 15	329 62	97 70	\$116 98	140 09
Bennett . . .	33 50	139 96	72 15	48 85	52 46
Knapp . . .	126 21	308 96	84 60	248 85	101 72
Perry . . .	45 45	177 85	77 65	114 00	31 65
Baxter . . .	99 15	218 75	78 75	152 00	87 15
Cummings . . .	56 52	131 48	127 64		60 36
Pope . . .	124 95	253 25	101 75	173 00	103 45
Bell . . .	136 56	163 26	120 73	96 00	83 09
Edgerly . . .	126 25	700 77	125 39	475 55	226 08
Glines . . .	90 35	470 16	26 10	416 01	118 40
Forster . . .	132 70	1,361 17	54 42	849 78	589 67
Bingham . . .	244 19	860 80	101 42	792 15	211 42
Morse . . .	54 97	167 68	35 63	118 80	68 22
Burns . . .	147 18	275 50	43 60	198 35	180 73
Durell . . .	64 50	102 45	101 81	42 00	23 14
Proctor . . .	104 96	137 75	33 66	139 85	69 20
Brown . . .	138 15	423 31	48 45	282 00	231 51
Highland . . .	185 27	444 15	104 75	405 00	119 67
Hodgkins . . .	305 12	619 30	319 30	345 90	259 22
Lowe . . .	141 65	416 85	63 05	351 15	144 30
Cutler . . .		104 55			104 55
Girls' Vocational . . .		18 35		3 40	14 95
	\$2,382 78	\$3,102 57	\$1,845 50	\$5,369 62	\$3,270 23

REPORT OF THE DENTAL DISPENSARY FROM DECEMBER 4, 1912, TO JUNE 25, 1913.

Mr. Charles S. Clark,
Superintendent of Schools.

Dear Sir: The dispensary opened in December, with a large number of patients on hand. We soon found it necessary to have a stated number of patients assigned for each day's work.

Minor extraction, cleaning and relief of toothache constituted most of the work for a short time.

It was soon apparent, however, if each patient was to have a completed treatment more time must be given the individual. Parents were thus interested through the work of the dispensary to have a more extended treatment of their children, and many local dentists were patronized in consequence.

The work was finally systematized as follows: A different school was assigned for each day and sent five of its most needy patients. The selection was at first left to the principals and teachers. Later the medical examiners were requested to make charts of the decayed teeth.

As neither method was accurate enough it was found advisable for the school dentist to make a careful examination at each school, leaving a list of the needy children with the principal. As stated five patients were sent to the dispensary each day and then reappointments were given them if necessary to complete their work. One day a week was set aside for this purpose, which was soon taken up more than a month in advance, showing not only the great necessity of the work but also the interest of a large per cent. of the patients treated in extending their work beyond immediate necessity.

This dispensary had proven to be a success previous to this year's work and the dentists that so willingly gave their time to help start this new form of relief and educational work are deserving of much credit.

From December 1, 1910, to December 1, 1911, there were 225 children treated. This was with voluntary service. From December 4, 1912, to June 25, 1913, there were 506 cases treated. Not only were the number of cases more than doubled in much less time, but more work to the individual was accomplished. With very few exceptions this work was done for children who would not have had it done otherwise. The result would have been the ultimate loss of the infected teeth, preceded by much suffering and ill health.

One of the many special cases we had was that of a boy whose throat and nasal passages were badly obstructed. Through the aid of the dispensary this case received the necessary treatment. We are in hopes the coming year to increase to a large extent the interest of parents and public generally in

the importance of a clean mouth as a most valuable asset in a child's education.

Children suffering from many ills consequent to decayed teeth are badly handicapped in their efforts for an education.

This report is designed to give an outline of the work and importance of the Somerville School Dental Dispensary.

We are always glad to receive visitors and explain the work. The dispensary has been able with the small fees charged to purchase all supplies.

DR. R. H. NORTON,
School Dentist.

REPORT UPON THE WORK OF THE SCHOOL NURSE.

Mr. Charles S. Clark,

Superintendent of Schools.

Dear Sir: In the annual appropriation of the Health department for the year 1913, the Board of Aldermen made provision for a School Nurse. After conference between the Board of Health and the School Committee, it was decided that the School Nurse should be under the direction of the Superintendent of Schools, and that her work should be defined by him. It was decided that her field of operation should include all of the elementary schools and an itinerary of visits was planned which would give a visit to every school building each week. It was decided to be advisable for the nurse to deal first with the diseases which produced the greatest amount of absence from school, with a view of reducing the amount of such absence. Visits to the homes of pupils who were excluded from school by medical inspectors on account of minor diseases was decided to be an important part of the work which the School Nurse should perform. It was decided also to be an important part of the work of the School Nurse to try to induce parents to act upon reports sent to them from the schools concerning physical defects of their children. Specifically this work aims to secure treatment for such children in hospitals, and to secure for them glasses in cases of defective vision.

On September 4, 1913, the Board of Health appointed Miss Ella B. Hornbrook school nurse and she entered upon the duties of her office with the opening of the schools in September. While her work for the first few months of her term of office was largely experimental and intended to find the facts in her field of action and to provide the best way for dealing with them, the following report will show some of the principal features of the work during the last four months of the year:—

Two hundred eighty-six visits to the schools; 378 visits to the homes, 394 pupils examined (eighty of these were treated in the schools), eighty-nine for pediculosis, ninety-two for uncleanness. Pupils taken to clinics for treatment: One eyes, three ears, three nose and throat, one medical, two skin diseases, eight tonsils and adenoids (operations performed). Cases of contagious disease discovered: Two ring worm, two scarlet fever, six scabies, two mumps, varicella, whooping cough. Other diseases discovered: Mal-nutrition, impetigo.

Respectfully submitted,

ELLA B. HORNBOOK,

School Nurse.

REQUIEM BY GIUSEPPE VERDI

Presented by pupils of the Somerville High School at Symphony Hall, Boston, April 21, 1913.

Mme. Wilhelmina Wright Calvert.....	Soprano
Miss Adelaide Griggs.....	Contralto
Mr. Harold S. Tripp.....	Tenor
Mr. Willard Flint.....	Basso

Chorus of Six Hundred Voices.

Sixty Players from the Symphony Orchestra.

Mr. Jacques Hoffman.....	Principal
Mr. Joshua Phippen.....	Organist

S. Henry Hadley, Conductor.

This performance of Verdi's Requiem is the sixth of a series of concerts presented by the pupils of the Somerville High Schools under the direction of Mr. Hadley. The five preceding concerts were Gaul's "Holy City" in 1896; Gaul's "Joan of Arc" in 1899; Haydn's "Creation" in 1903; Haydn's "Seasons" in 1906; Mendelssohn's "Elijah" in 1910.

The proceeds of this concert will be used to purchase pictures, casts, and other works of art for the school buildings, with especial attention to the decoration of the new classrooms and auditorium.

SOMERVILLE TEACHERS' ASSOCIATION.**Officers, 1913-1914.**

President, Walter I. Chapman.
 Vice-President, E. Minor Morse.
 Vice-President, John M. Jaynes.
 Secretary-Treasurer, May E. Small.

Executive Committee:—

Superintendent Charles S. Clark, ex-officio.

Jennie H. Luce, Prescott.	Edna F. Scott, Forster.
Elizabeth M. Collins, Hanscom.	Harry F. Hathaway, Bingham.
Mrs. Nettie L. Fay, Bennett.	Mrs. M. Florence Eustis, Carr.
Maria D. McLeod, Baxter.	Blanche E. Thompson, Morse.
Minnie Alice Perry, Knapp.	Abbie A. Gurney, Proctor.
Edith L. French, Pope.	Alice M. Dicker, Durell.
Eva R. Barton, Bell.	Ardelle Abbott, Burns.
Elizabeth L. Hersey, Cummings.	George I. Bowden, Brown.
Edith M. Snell, Edgerly.	Elizabeth S. Smith, Highland.
Isabel J. Tiffit, Glines.	Isabelle M. Brunton, Hodgkins.
Helen C. French, Girls' Vocational.	Elizabeth R. Henderson, Cutler.
	Katherine E. Hourahan, Lowe.

The meetings held under the auspices of this association in the year 1913 were as follows:—

February 12—Dr. Albert Marian Hyde. Subject: "Abraham Lincoln—America's Greatest Educator."

April 2—Mr. Stuart A. Curtis, Supervisor of Testing Work, Boston. Subject: "Some Recent Tests in Arithmetic."

April 5—Social evening.

October meeting omitted on account of lack of accommodations.

December 17—Professor Ernest C. Moore of the Department of Education, Harvard University. Subject: "Fundamentals in Education."

SOMERVILLE TEACHERS' CLUB.**Officers, 1913 1914.**

President, Miss Eliza H. Lunt.

Vice-Presidents, { Miss Charlotte Holmes.
 { Miss Lillian Nealley.

Recording Secretary, Miss Rena S. Hezelton.

Corresponding Secretary, Miss Martha A. Jencks.

Treasurer, Miss Elizabeth J. Baker.

Auditor, Miss Marion P. Crawford.

Object.

The object shall be to secure a close union among the women teachers in Somerville; to promote the spirit of mutual helpfulness; to advance professional interests; to create a deeper sense of the dignity of the profession; to unite the interests of home and school.

Programme.

January 22—Guest night. Edward Abner Thompson. Readings from "Hiawatha."

February 11—Valentine party. Ella Eastman. Monologues.

March 11—Chafing dish party.

April 8—Judge Henry A. Shute, "A Real Diary of a Real Boy."

May 27—Annual meeting.

October 14—"The Symbolism of Ibsen and Maeterlinck" with illustrative readings, Mrs. E. Charlton Black.

November 11—Informal talk on Indian Baskets and Blankets, Mrs. Robert M. Read.

December 9—An opera talk: "Tales of Hoffman," Havrah Hubbard.

At the meeting of the School Board held on January 2, 1914, the Committee voted to record on the minutes its appreciation of the high character and service of Mary J. Malaney, Master's assistant at the Knapp School, whose death occurred on November 28, 1913.

CONTENTS OF APPENDIX.**SUMMARY OF STATISTICS.**

Population and school census
 School buildings
 Teachers
 Attendance for year
 Cost of school maintenance
 Teachers' salaries
 Results of eye and ear tests

MISCELLANEOUS TABLES.**CONCERNING FINANCE****No. of Table**

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2. Cost of maintaining schools, school year 1912-1913
3. Cost per capita of maintaining schools, school year 1912-1913
4. Cost of maintaining schools for a series of years
5. Cost per capita for maintaining schools for a series of years
6. Amount spent annually for new school buildings and for repairs for a series of years

CONCERNING PUPILS

7. Population and school census
8. Attendance, etc., of the schools for school year 1912-1913
9. Statistics of the high schools, for school year 1912-1913
10. Pupils by grades October, 1912-1913
11. Separate statistics for grammar and primary schools, for school year 1912-1913
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15. Evening school statistics, 1912-1913
16. Grammar school graduates for a series of years
17. Attendance statistics of all schools for a series of years
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19. Promotions, 1913
- 19-A. Distribution of pupils by ages, October 1, 1913
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CONCERNING TEACHERS

20. Resignations of teachers, 1913
21. Teachers elected in 1913
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STATISTICAL AND GENERAL TABLES

25. Changes in text-books, 1913
26. High school graduation exercises, 1913
27. Grammar school graduation exercises, 1913
28. Organization of school board for 1914
29. Teachers in service January, 1914
30. Officers in service January, 1914
31. School janitors

SUMMARY OF STATISTICS.

1.—POPULATION AND SCHOOL CENSUS.

Population, state census, 1895.....	52,200
Population, United States census, 1900.....	61,643
Population, state census, 1905.....	69,272
Population, United States census, 1910.....	77,236
Children between five and fifteen years of age, October, 1912, by school census.....	12,470
Children between five and fifteen years of age, October, 1913, by school census.....	12,689
Increase	219

2.—SCHOOL BUILDINGS.

	1912.	1913.	Change.
Number of school buildings....	27	27	0
Number of classrooms in use in June	281	289	+8
Valuation of school property....	\$1,596,041	\$1,732,623	

3.—TEACHERS.

	1912.	1913.	Change.
In high schools.....	66	68	+2
In grammar schools.....	169	164	—5
In primary schools.....	83	93	+10
In kindergartens.....	8	8	0
Total in elementary schools	260	265	+5
Vocational school for boys	4	4	0
Vocational school for girls.....	8	9	+1
Atypical class.....	1	2	+1
Cadet teachers.....	0	4	+4
Special	10	13	+3
Total	349	365	+16

4.—ATTENDANCE FOR YEAR.

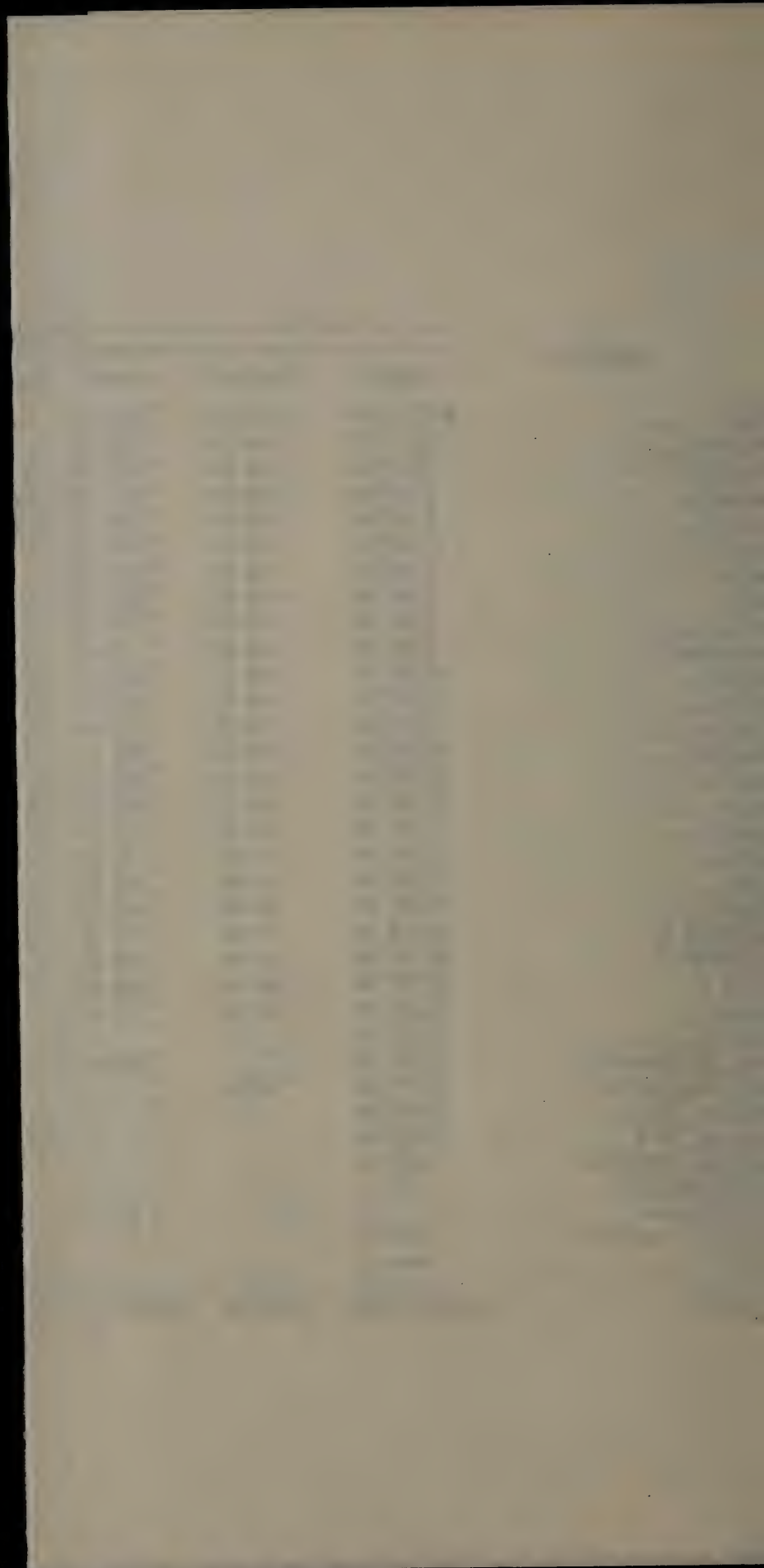
	*1912.	*1913.	Change.
Entire enrollment for the year..	13,272	13,491	+219
Average number belonging.....	11,710	11,903	+193
Average number attending.....	11,083	11,216	+133
Per cent. of daily attendance....	94.6	94.2	—0.4
High school graduates.....	296	296	0
Grammar school graduates.....	781	691	—90

5.—COST OF SCHOOL MAINTENANCE.

	*1912.	*1913	Change.
Salaries of teachers.....	\$299,193.32	\$313,224.45	+14,031.13
Salaries of officers.....	7,515.82	7,520.01	+4.19
Cost of books and supplies	30,319.38	\$25,876.65	—4,442.73
Cost of light.....	5,995.20	5,841.42	—153.78
Cost of janitors' services....	30,219.41	32,939.41	+2,720.00
Cost of fuel.....	15,675.94	16,055.27	+379.33
Telephones	511.81	541.78	+29.97

CLASSIFIED STATEMENT SHOWING DISTRIBUTION OF EXPENDITURES CONTROLLED BY THE SCHOOL BOARD.

SCHOOLS.	SALARIES																			Mending Tape, Paste, etc.	Pianos, Tuning and Repairs.	Travel.	Graduation Expenses.	Postage.	Tuition and Board of Truants.	Miscellaneous.	Equipment.	Totals.	SCHOOLS.					
	Regular.	Substitute.	Special.	Kindergarten	Total.	Administrative Salaries.	Books.	White Paper.	Manila Paper.	Blank Books.	Pencils, Pens, etc.	Maps and Charts.	Bookbinding.	Seat Work, and Kindergarten Supplies.	Manual Training Supplies.	Drawing Supplies.	Laboratory Supplies.	Bookkeeping Blanks.	Domestic Science Supplies.											Typewriters and Supplies.	Printing.	Expressage.		
High	\$78,108 25	\$315 00	\$378 32	.....	\$78,801 57	.....	\$2,082 82	\$704 43	\$181 44	\$447 54	\$320 12	\$51 00	\$329 04	.....	\$1,172 44	\$516 01	\$850 65	\$456 23	\$500 63	\$495 51	\$470 34	\$67 48	\$15 55	\$2 00	\$15 58	\$151 35	\$26 40	.....	\$290 74	.....	\$9,747 30	.....	High	
Prescott	10,711 07	59 75	578 21	.....	11,349 03	.....	193 44	25 08	28 03	63	22 13	84	21 42	\$9 68	74 72	27 97	.....	.....	.....	.....	.....	15	5 00	2 00	31 88	9 10	.....	.....	20 84	.....	472 91	.....	Prescott	
Hanscom	7,118 63	154 25	191 36	\$1,125 00	8,589 24	.....	62 95	10 52	22 73	63	20 04	14 49	13 26	41 83	.....	16 19	.....	.....	.....	.....	.....	35	81	.....	.....	.....	.....	.....	12 99	.....	216 79	.....	Hanscom	
Bennett	7,488 88	141 00	201 82	955 00	8,786 70	.....	48 98	12 04	24 33	1 56	19 58	7 82	7 48	75 76	.....	17 52	.....	.....	.....	.....	.....	.....	1 81	6 00	.....	.....	.....	.....	31 30	.....	254 68	.....	Bennett	
Baxter	3,745 00	17 50	123 94	1,028 38	4,914 82	.....	33 34	16 11	18 39	94	16 49	50	2 72	29 30	.....	14 26	.....	.....	.....	.....	.....	50	1 91	.....	2 30	.....	.....	.....	5 17	.....	141 78	.....	Baxter	
Knapp	11,552 95	73 25	654 77	.....	12,280 97	.....	198 20	61 50	48 72	20 49	30 15	4 80	39 80	4 52	75 10	37 47	.....	.....	.....	.....	.....	35	3 87	.....	.....	12 80	.....	.....	12 90	.....	551 27	.....	Knapp	
Perry	4,400 31	62 00	155 38	.....	4,617 69	.....	28 43	14 50	10 00	.....	10 27	7 15	.....	6 98	7 64	18 53	.....	.....	.....	.....	.....	95	3 07	.....	.....	.....	.....	.....	3 49	.....	110 16	.....	Perry	
Pope	9,981 88	91 71	604 66	.....	10,678 25	.....	174 69	66 98	31 17	13 06	16 92	60	23 46	8 09	73 07	40 25	.....	.....	.....	.....	.....	10	2 92	1 00	3 48	8 30	.....	.....	23 61	.....	491 75	.....	Pope	
Bell	8,184 26	99 26	593 15	.....	8,876 67	.....	251 72	43 31	46 18	13 61	12 38	60	50 83	.....	66 07	42 21	.....	.....	.....	.....	.....	3 75	1 40	2 92	10 41	7 30	.....	.....	18 69	.....	570 23	.....	Bell	
Cummings	2,900 63	14 83	59 68	.....	2,975 14	.....	37 03	53 03	13 88	63	12 78	17 54	.....	29 05	.....	2 78	.....	.....	.....	.....	.....	25	1 57	.....	.....	.....	.....	.....	2 12	.....	121 37	.....	Cummings	
Edgerly	10,420 20	114 75	604 07	.....	11,139 02	.....	202 04	34 68	38 93	13 61	43 70	1 84	20 39	11 75	78 56	32 88	.....	.....	.....	.....	.....	25	4 84	1 50	.....	14 20	.....	.....	22 11	.....	521 28	.....	Edgerly	
Glines	10,918 57	55 50	544 51	1,125 00	12,643 58	.....	191 95	3 74	39 03	4 34	31 15	6 82	12 51	27 16	52 62	35 53	.....	.....	.....	.....	.....	25	3 00	4 50	.....	6 20	.....	.....	32 57	.....	502 36	.....	Glines	
Forster	14,615 00	129 25	775 01	.....	15,519 26	.....	208 74	77 73	45 33	14 17	36 46	23 68	4 59	16 49	95 78	44 64	.....	.....	.....	.....	.....	37 15	1 90	.....	2 50	15 55	.....	.....	55 71	.....	682 62	.....	Forster	
Bingham	14,236 77	179 25	701 11	.....	15,117 13	.....	284 38	87 66	47 99	14 24	42 85	21 52	38 39	14 22	78 15	53 43	.....	.....	.....	.....	.....	40	7 68	4 50	6 65	12 50	.....	.....	20 78	.....	735 44	.....	Bingham	
Carr	14,642 58	193 00	682 30	.....	15,517 88	.....	291 05	105 24	29 62	7 43	24 41	13 20	30 43	32 38	79 84	56 11	.....	.....	.....	.....	.....	25	5 96	8 25	.....	11 00	.....	.....	10 86	.....	706 03	.....	Carr	
Morse	10,138 57	74 25	527 62	.....	10,740 44	.....	243 01	53 68	54 66	16 94	33 92	8 12	11 90	11 70	63 63	43 66	.....	.....	.....	.....	.....	50	3 92	4 00	2 60	9 30	.....	.....	18 54	.....	579 58	.....	Morse	
Proctor	5,331 26	81 25	202 34	.....	5,614 85	.....	43 38	26 45	34 83	2 19	13 77	5 02	.....	62	15 32	19 58	.....	.....	.....	.....	.....	.....	2 92	2 00	.....	.....	.....	.....	19 13	.....	185 31	.....	Proctor	
Durell	2,889 00	15 00	68 85	.....	2,972 85	.....	14 81	14 36	14 98	.....	11 94	.....	5 95	7 23	.....	7 67	.....	.....	.....	.....	.....	10	31	.....	.....	.....	.....	.....	2 59	.....	79 94	.....	Durell	
Burns	6,485 00	43 00	226 97	.....	6,754 97	.....	171 91	32 35	37 60	.....	13 19	40	.....	18 25	15 32	19 05	.....	.....	.....	.....	.....	10	6 96	.....	1 90	.....	.....	.....	13 70	.....	331 98	.....	Burns	
Brown	9,237 19	68 50	492 24		9,797 93		134 99	72 21	28 24	3 75	20 68	6 40	20 51	7 51	65 79	48 67							1 35	7 00	5 50	8 91	11 40			19 29		461 35		Brown
Highland	10,802 58	6 50	770 36	.....	11,579 44	.....	296 68	95 14	30 47	20 77	39 45	50	28 90	1 25	128 67	36 53	.....	.....	.....	.....	.....	50	4 93	.....	3 30	24 25	.....	.....	14 87	.....	725 71	.....	Highland	
Hodgkins	10,726 88	52 00	523 46	.....	11,302 34	.....	272 74	59 90	36 65	.....	34 83	11 31	26 86	8 08	66 69	48 45	.....	.....	.....	.....	.....	1 40	3 37	2 00	7 61	8 10	.....	.....	14 22	.....	602 21	.....	Hodgkins	
Cutler	10,737 19	120 00	528 18	.....	11,385 37	.....	823 11	107 76	67 40	12 36	52 00	77 37	38 42	27 72	63 79	61 56	.....	.....	.....	.....	.....	11 30	5 77	250 00	.....	8 30	.....	.....	47 01	.....	1,653 87	.....	Cutler	
Lowe	5,635 00	32 50	135 81	.....	5,803 31	.....	27 68	9 34	24 83	.....	6 30	7 97	.....	29 60	.....	18 02	.....	.....	.....	.....	.....	40	.....	.....	.....	.....	.....	.....	11 60	.....	135 74	.....	Lowe	
Atypical	1,237 50	.....	.....	.....	1,237 50	.....	5 63	.....	1 16	.....	2 30	.....	.....	25 27	20 79	5 47	.....	.....	.....	.....	.....	15	.....	.....	.....	.....	.....	.....	2 95	.....	63 72	.....	Atypical	
Boys' Vocational	4,197 73	.....	100 00	.....	4,297 73	.....	48 83	.....	.....	.....	.....	.....	.....	.....	1,264 70	24 04	.....	.....	.....	.....	.....	7 50	12 40	32 41	.....	6 76	.....	.....	165 40	\$4 50	1,577 54	.....	Boys' Vocational	
Girls' Vocational	6,211 25	16 25	.....	.....	6,227 50	.....	17 65	1 18	.....	.....	.....	.....	.....	.....	.....	11 55	.....	.....	22 96	.....	.....	48 75	20 38	.....	4 10	.....	.....	.....	141 58	502 47	807 25	.....	Girls' Vocational	
Evening, High	4,083 00	.....	.....	.....	4,083 00	.....	96 60	8 55	1 80	5 67	18 05	.....	.....	.....	.....	143 58	.....	158 55	.....	.....	.....	72 34	4 50	.....	.....	11 30	.....	.....	11 53	.....	540 97	.....	Evening, High	
Evening, Bell	2,919 50	.....	.....	.....	2,919 50	.....	60 29	.....	1 93	.....	6 90	.....	.....	.....	.....	40	.....	.....	.....	.....	.....	19 70	75	.....	.....	2 40	.....	.....	5 36	.....	110 88	.....	Evening, Bell	
Evening, Highland	868 50	.....	.....	.....	868 50	.....	18 82	4 97	3 85	1 25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18 21	.....	.....	.....	.....	.....	.....	3 13	.....	50 23	.....	Evening, Highland	
Administration						\$7,656 00	48 30	3 85													6 10	675 35	6 25		203 65		252 75			915 51		9,767 76		Administration
Miscellaneous .....	.....	.....	55 00	.....	55 00	.....	10 44	155 48	81 17	10 84	6 79	2 55	.....	22 07	144 37	16 23	.....	.....	9 18	24 50	.....	327 65	14 70	18 13	28 50	.....	17 75	\$1,324 10	81 60	89 89	2,385 94	.....	Miscellaneous	
Evening, Industrial	610 00	.....	.....	.....	610 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31 37	.....	.....	.....	.....	.....	.....	.....	.....	.....	25 00	28 74	85 11	.....	Evening, Industrial	
Dental	900 00	.....	.....	.....	900 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dental	
Totals	\$302,035 13	\$2,209 55	\$10,479 12	\$4,233 38	\$318,957 18	\$7,656 00	\$7,224 63	\$1,961 82	\$1,045 34	\$626 25	\$919 55	\$292 04	\$726 86	\$466 51	\$3,703 06	\$1,460 24	\$850 65	\$614 78	\$564 14	\$526 11	\$1,684 49	\$149 36	\$150 33	\$293 25	\$340 13	\$323 35	\$366 18	\$1,324 10	\$2,075 89	\$625 60	\$35,971 06		Totals	



SCHOOL DEPARTMENT.

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	*1912.	*1913	Change.
Rent of school rooms.....		92.50	+92.50
Total cost of day and evening schools	389,430.88	402,091.89	+12,661.01
Per capita cost.....	30.66	33.78	+3.12
Cost of high school instruction	72,930.75	77,405.07	+4,474.32
Per capita cost.....	40.25	42.09	+1.84

6.—MISCELLANEOUS.

	1912	1913	Change.
Paid for new school buildings	\$35,527.55	\$34,866.27	—661.28
Repairs and permanent improvements	14,163.46	19,341.35	+5,177.89
Total school expenditures	439,121.89	456,299.51	+17,177.62
Number of dollars spent to maintain schools out of every \$1,000 of valuation	5.56	5.60	+0.04
Valuation of city.....	69,632,540.00	71,848,810.60	+2,216,270.60
Number of dollars spent for all school purposes out of every \$1,000 of valuation...	6.16	6.36	+0.20

* School Year.

Cost of the Schools. The total amount spent for the maintenance of the schools of Somerville for the school year ending June 30, 1913, is \$402,091.89.

This includes the sums spent for care of school buildings, including janitors' services, fuel, lights, and school telephones; the amount paid for salaries of officers, and the amount spent for school supplies; and the sum paid for salaries of teachers.

The expenditure for care of school buildings is wholly in charge of the City Government. The expenditures for salaries of officers, for school supplies and the salaries of teachers are in charge of the School Committee.

The amount paid for janitors is.....	\$32,939.41
The cost of fuel is.....	16,055.27
The cost of light is.....	5,841.42
The cost of the school telephones is.....	541.78
Rent of school rooms.....	92.50
A total cost of.....	55,470.38
The cost per capita.....	4.65
Cost of repairs.....	19,341.35

The second important expenditure is wholly under the control of the School Committee, and is covered by what is known as the "School Contingent" appropriation. The following is the itemized account:—

Expenditures.	Total.	DAY SCHOOLS.		EVENING SCHOOLS.	
		High.	Elementary.	High.	Elementary.
Officers' Salaries	\$7,520.01	.....	.....	.....	.....
Office Expenses	2,092.29	.....	.....	.....	.....
Textbooks	9,318.60	\$4,058.86	\$5,217.55	\$.75	\$41.44
Stationery and Supplies	13,091.90	4,297.00	8,207.71	491.89	95.30
Other Expenses	289.50	23.25	216.25	.....	.....
Miscellaneous (Tuition, etc.) . .	1,134.36	.....	.....	.....	.....
Total	\$33,396.66	\$8,379.11	\$13,641.51	\$492.64	\$136.74

The third, and by far the largest, element of the cost of schools is the sum spent for the salaries of teachers. This expenditure is under the control of the school committee.

The following statement shows the distribution of the sums paid for salaries:—

Expenditures.	Total.	DAY SCHOOLS.		EVENING SCHOOLS.	
		High.	Elementary.	High.	Elementary.
Supervisors	\$5,181.25	\$398.32	\$4,782.93	.....	.....
Principals	39,243.70	3,200.00	34,966.70	\$354.00	\$723.00
Teachers	268,799.50	73,826.75	187,935.25	3,699.50	3,338.00
Total	\$313,224.45	\$77,425.07	\$227,684.88	\$4,053.50	\$4,061.00

The total outlay for all school purposes includes all of the preceding and the sums spent for schoolhouse repairs and new buildings.

The total outlay for the school year ending June 30, 1913 is as follows:—

Care	\$55,470.78
Contingent	33,396.66
Salaries	313,224.45
Total for school maintenance.....	\$402,091.89
Paid for repairs.....	19,341.35
Paid for new buildings.....	34,866.27
Total for all school purposes.....	\$456,299.51

Each dollar of the sum spent for the support of schools has been divided in the following proportion:—

	1908.	1909.	1910.	1911.	1912.	1913.
Janitors' salaries.....	\$0.070	\$0.071	\$0.070	\$0.071	\$0.071	\$0.082
Heat and light.....	0.051	0.052	0.054	0.053	0.054	0.055
Administration	0.015	0.015	0.017	0.019	0.020	0.018
School supplies.....	0.072	0.061	0.071	0.068	0.076	0.065
Teachers' salaries....	0.792	0.801	0.788	0.789	0.779	0.780
Total	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000

Per Capita Cost. The proper method of comparison of the cost of schools year by year is to consider the sum spent for each pupil in the average membership. In this computation we exclude the cost of evening schools. The following shows

THE PER CAPITA COST OF DAY SCHOOLS FOR 1912 AND 1913.

	High Schools.			Grammar and Primary Schools.			All Day Schools.		
	1912.	1913.	Change	1912.	1913.	Change	1912.	1913.	Change
Instruction . . .	\$41 13	\$42 85	+\$1 72	\$21 99	\$22 36	+\$0 37	\$24 97	\$26 20	+1 23
Supplies . . .	5 63	5 24	-0 39	1 71	1 35	-0 36	2 34	2 09	-0 25
Care . . .	5 39	5 45	+0 06	3 94	4 17	+0 23	4 16	4 55	+0 39
Total . . .	\$52 15	\$53 54	+\$1 39	\$27 64	\$27 88	+\$0 24	\$31 47	\$32 84	+\$1 37

Including the cost of maintenance of evening schools, the per capita cost is as follows:—

	1910.	1911.	1912.	1913.
Cost of instruction.....	\$23.05	\$23.50	\$23.61	\$24.57
Cost of supplies.....	2.03	1.95	2.12	2.03
Cost of care.....	3.59	3.62	3.99	4.35
Total	\$28.67	\$29.07	\$29.72	\$30.95

An examination of these tables shows that we have paid \$1.72 more for the instruction of each pupil in the high school than in 1912, and thirty-nine cents less per pupil for supplies.

The grammar and primary schools have cost thirty-seven cents more per pupil for instruction, and thirty-six cents less for supplies.

The amount spent for the school year 1913 was \$5.60, or four cents more than was spent in 1912. The amount yielded for each child in the average membership of the schools for 1913, not including the industrial schools, was \$30.63.

Comparative Per Capita. According to the annual report of the State Board of Education for 1912-13, the amount yielded for each child in the average membership of the public

schools was \$33.41, giving to Somerville the rank of ninety-eight among the cities and towns of Massachusetts. In 1911-12 the rank was 106. By the same report it is shown that Somerville appropriated to the support of the public schools \$5.98 for each thousand dollars of valuation, and had the rank of 139. The year before the amount spent was \$5.95 and the rank 138.

Teachers' Salaries. The salaries paid to teachers in January, 1914, are as follows:—

1 man	\$3,200	12 women	\$875
1 man	2,250	4 women	850
3 men	2,000	13 women	825
10 men, 2 women.....	1,900	1 man, 161 women.....	800
1 man	1,850	25 women	750
3 men, 1 woman.....	1,800	21 women	700
6 men	1,700	14 women	650
2 men	1,600	11 women	600
5 men, 1 woman.....	1,500	1 woman	550
1 man, 3 women.....	1,200	3 women	525
2 men	1,150	3 women	500
1 woman	1,100	2 women	425
2 men	1,050	4 women	400
13 women	1,000	3 women	350
6 women	950	4 women	200
1 man, 18 women.....	900		

Sight and Hearing.

The following gives the results of the eye and ear test:—

EYES.

	1912.	1913.	Change.
Tested	10,933	11,414	+481
Defective	1,765	1,739	—26
Per cent. defective.....	16.1	15.2	—0.9
Notices sent to parents.....	1,085	1,049	
Professionally treated.....	169	167	

EARS.

	1912.	1913.	Change.
Tested	11,634	11,806	+172
Defective	270	265	—5
Per cent. defective.....	2.3	2.3	0
Notices sent to parents.....	182	181	
Professionally treated.....	26	21	

TABLE 1.—SCHOOLHOUSES.

NAME.	No. of Classrooms.	No. of Sittings.	Size of Lot, including Space Occupied by Building.	Material.	How Heated.	How Ventilated.	Valuation, including Furniture.	When Built.	Enlargements.
High } West	44	1,795	*	Brick	Steam	Fan	\$381,670	1895	8 rooms added 1906
School } East	12	585	22,000	Brick	Steam	Fan	66,260	1871	30 rooms added 1913
Prescott	13	636	24,517	Brick	Steam	Gravity	50,540	1867	
Knapp	12	578	27,236	Brick	Steam	Gravity	85,760	1889	4 rooms added 1894
Pope	12	501	22,262	Brick	Steam	Fan	50,086	1891	
Bell	12	533	24,000	Brick	Steam	Gravity	46,030	1874	
Edgerly	14	674	28,800	Brick	Steam	Gravity	80,740	1871	{ 4 rooms added 1882
Glines	18	823	30,632	Brick	Steam	Gravity	87,445	{ 4 rooms added 1892	
Forster	16	797	35,586	Brick	Steam	Gravity	71,955	1891	5 rooms added 1896
Bingham	17	776	20,450	Brick	Steam	Gravity	54,210	1866	6 rooms added 1899
Carr	12	520	29,000	Brick	Furnace	Furnace	48,199	1886	{ 4 rooms added 1894
Morse	12	583	23,260	Brick	Steam	Gravity	60,560	1898	{ 8 rooms added 1904
Highland	14	557	35,034	Brick	Steam	Gravity	75,651	1898	6 rooms added 1890
Hodgkins	12	551	53,729	Brick	Steam	Gravity	94,468	1880	4 rooms added 1891
Cutler	12	507	17,000	Brick	Steam	Gravity	60,248	1896	
Bennett	12	481	12,756	Brick	Steam	Fan	73,290	1912	
Hanscom	244	10,897	.....	.....	.....	.....	\$1,387,112	1902	4 rooms added 1907
Carried forward								1897	

(a) There are besides, four recitation rooms, five laboratories, two lecture rooms, six manual training rooms, two typewriting rooms, two libraries, two supply rooms, five teachers' rooms, etc., three drawing rooms, three domestic science rooms, one domestic arts room, two manual training rooms, four manual training supply rooms, lockers, five offices, one luncheon room, one hall, and six toilet rooms, making fifty-two rooms devoted to other than classroom uses.

*Buildings are located on Central Hill Park, which contains 13 1-10 acres.

TABLE 1 (Concluded).—SCHOOLHOUSES.

NAME.	No. of Classrooms.	No. of Sittings.	Size of Lot, including Space Occupied by Building.	Material.	How Heated.	How Ventilated.	Valuation, including Furniture.	When Built.	Enlargements.
Brought forward . .	244	10,897	.....	.....	.....	.....	\$1,387,112	....	
Brown	10	487	20,093	Brick	Steam	Gravity	64,151	1901	4 rooms added 1907
Proctor	9	343	18,000	Brick	Steam	Gravity	42,820	1905	
Burns	8	387	16,080	Brick	Steam	Gravity	34,760	1886	4 rooms added 1899
Lowe	8	337	21,650	Brick	Steam	Gravity	51,826	1903	
Baxter	6	298	11,000	Brick	Steam	Gravity	32,956	1901	
Perry	6	321	46,080	Brick	Steam	Gravity	37,080	1899	
Girls' Vocational . .	6b	50	8,850	Wood	Furnace	Furnace	9,338	1911	
Boys' Vocational . .	4	50	30,155	Wood	Furnace	Furnace	22,720	1884	
Cummings	4	167	11,300	Wood	Furnace	Furnace	11,920	1884	
Durell	4	198	13,883	Brick	Steam	Gravity	19,720	1894	
Lincoln*	..	..	17,662	Wood	Steam	Gravity	18,220	1885	
Total	309	13,535	.....	....	.....	.....	\$1,732,623	....	

(b) There are besides one girls' dining room, one teachers' dining room, one stock room, four fitting rooms, one infirmary, and a principal's office.
* Temporarily out of use.

TABLE 2.—COST OF MAINTAINING SCHOOLS
FOR SCHOOL YEAR 1912-13.

SCHOOLS.	FROM SCHOOL APPROPRIATION.		SPENT BY CITY GOVERNMENT.	Total.
	Instruction and Supervision.	Supplies.	Care.	
High	\$78,794 74	\$9,633 59	\$10,026 09	\$98,454 42
Prescott	11,682 27	561 69	1,779 18	14,023 14
Knapp	12,586 84	882 75	1,836 59	15,306 18
Pope	10,856 23	587 91	1,935 12	13,379 26
Bell	9,030 80	560 20	1,455 75	11,046 75
Edgerly	11,099 86	713 98	1,631 61	13,445 45
Glines	12,921 85	627 95	2,369 49	15,919 29
Forster	15,581 60	886 21	3,321 12	19,788 93
Bingham	15,466 78	958 53	2,141 91	18,567 22
Carr	15,786 06	816 15	2,333 56	18,935 77
Morse	10,679 23	684 52	1,767 16	13,130 91
Brown	9,938 45	744 80	2,565 93	13,249 18
Highland	11,801 29	772 81	1,948 69	14,522 79
Hodgkins	11,279 39	687 53	1,692 09	13,659 01
Cutler	11,124 42	1,481 07	2,510 70	15,116 19
Bennett	8,601 40	521 88	1,798 53	10,921 81
Hanscom	8,708 09	351 82	1,618 32	10,678 23
Proctor	5,750 52	293 76	1,561 88	7,606 16
Burns	6,877 29	272 92	1,403 06	8,553 27
Lowe	5,952 03	276 34	1,352 78	7,581 15
Baxter	5,285 81	236 50	1,198 12	6,720 43
Perry	4,784 54	192 42	1,281 30	6,258 26
Cummings	2,916 45	166 61	1,083 55	4,166 61
Durell	3,057 36	158 49	875 28	4,091 13
Evening	8,867 60	973 42	1,286 79	11,127 81
Atypical	927 61	47 26	106 61	1,081 48
Boys' Vocational .	4,276 34	1,078 04	1,242 90	*6,597 28
Girls' Vocational .	6,109 61	707 50	1,346 67	*8,163 78
Total	\$320,744 46	\$25,876 65	\$55,470 78	\$402,091 89

*This total for vocational schools is about \$7,400 larger than the cost to the city for maintaining them, as the city will be reimbursed that amount by the state under provisions of Statutes.

TABLE 3.—PER CAPITA COST OF MAINTAINING SCHOOLS
FOR SCHOOL YEAR 1912-13.

SCHOOLS.	Instruction and Supervision.	Supplies.	Care.	Total.
High	\$42 85	\$5 24	\$5 45	\$53 54
Prescott	22 38	1 08	3 41	26 87
Knapp	24 07	1 69	3 51	29 27
Pope	21 58	1 17	3 85	26 60
Bell	21 35	1 32	3 44	26 11
Edgerly	23 47	1 51	3 45	28 43
Glines	25 95	1 26	4 76	31 97
Forster	22 78	1 30	4 86	28 94
Bingham	21 78	1 35	3 02	26 15
Carr	24 40	1 26	3 61	29 27
Morse	22 87	1 47	3 78	28 12
Brown	21 86	1 64	5 64	29 12
Highland	24 59	1 61	4 06	30 26
Hodgkins	23 83	1 45	3 58	28 86
Cutler	21 19	2 82	4 78	28 79
Bennett	24 03	1 46	5 02	30 51
Hanscom	18 26	74	3 39	22 39
Proctor	20 18	1 03	5 48	26 69
Burns	21 56	86	4 40	26 82
Lowe	21 11	98	4 80	26 89
Baxter	22 21	99	5 03	28 23
Perry	19 77	80	5 29	25 86
Cummings	14 58	83	5 42	20 83
Durell	18 76	97	5 37	25 10
Evening	10 48	1 15	1 52	13 15
Atypical	66 26	3 38	7 62	77 26
Gram. and primary	22 36	1 35	4 17	27 88
All schools	24 54	1 91	4 18	30 63
Boys' Vocational .	77 75	19 60	22 60	119 95
Girls' Vocational .	106 45	14 74	28 06	149 25

TABLE 4.—ANNUAL COST OF MAINTAINING THE SCHOOLS
FOR A SERIES OF YEARS.

Amounts are given to the nearest dollar and include what has been paid for maintaining day and evening schools of all grades.

YEAR.	Average Member- ship.	FROM SCHOOL APPROPRIATION.		SUM SPENT UNDER DIRECTION OF CITY GOVERNMENT.				Total.
		Instruction and Super- vision.	School Supplies.	Light.	Heating.	Janitors.	School Tele- phones.	
1886	4,985	\$83,542	\$6,676	\$624	\$4,929	\$4,194	...	\$99,865
1887	5,198	86,713	7,526	765	6,475	5,084	...	106,563
1888	5,488	88,967	7,421	953	7,121	5,892	...	110,354
1889	5,956	96,466	9,903	805	6,081	6,448	...	119,703
1890	6,486	104,184	10,371	1,004	5,586	7,539	...	128,684
1891	6,502	114,066	13,899	1,047	8,032	8,544	...	145,588
1892	7,035	124,232	12,944	1,064	7,148	9,794	...	155,183
1893	7,217	128,720	10,137	1,014	8,312	10,160	...	158,333
1894	7,212	132,919	10,919	958	9,673	10,686	...	165,155
1895	7,617	144,113	15,063	1,398	8,796	11,581	...	180,951
1896	8,077	161,551	17,601	1,469	9,962	14,160	...	204,743
1897	8,589	180,222	14,815	1,920	10,065	16,251	...	223,273
1898	9,085	189,244	14,986	2,075	9,767	17,393	...	233,465
1899	9,502	197,660	16,131	2,472	10,821	17,831	...	244,915
1900	9,823	212,863	15,735	1,729	10,840	19,236	...	260,403
1901	9,991	226,556	18,707	1,731	13,723	20,078	...	280,796
1902	10,402	234,210	19,386	1,803	10,489	20,859	...	286,747
1903	10,719	242,964	20,873	2,015	18,052	21,042	...	304,946
1904	11,094	255,481	21,411	1,436	15,315	22,024	\$237	315,904
1905	11,543	259,597	20,137	4,345	15,167	21,949	482	321,677
1906	11,762	266,197	22,589	2,875	14,162	23,143	380	329,346
1907	11,909	273,107	24,317	3,760	15,236	23,999	433	340,852
1908	12,159	294,400	26,377	3,831	14,912	25,245	386	365,151
1909	12,423	298,839	21,819	4,071	14,798	26,072	550	366,149
1910	12,131	298,420	26,292	6,109	14,003	25,803	595	371,222
1911	11,871	300,393	24,968	4,751	14,907	26,031	529	371,579
*1912	11,710	306,709	30,319	5,995	15,676	†30,219	512	389,431
*1913	11,856	320,744	25,877	5,842	16,055	32,939	542	402,092‡

* Facts are given for School Year, July 1 to June 30, inclusive.

† Salaries, \$27,708; Supplies, \$2,511.

‡ \$92.50 included for rental of church for schoolhouse purposes in Ward 7.

TABLE 5.—ANNUAL COST PER CAPITA OF MAINTAINING SCHOOLS

FOR A SERIES OF YEARS.

[Based on the average membership.]

YEAR.	Instruction and Supervision.	School Supply Expenses.	Janitors, Water, Heat, and Light.	Total.	Assessors' Valuation of City.	Ratio of Cost of School Maintenance to Valuation
1886	\$16 76	\$1 34	\$1 94	\$20 03	\$26,003,200	.00384
1887	16 68	1 45	2 37	20 50	27,469,300	.00388
1888	16 21	1 36	2 54	20 11	28,756,400	.00384
1889	16 20	1 66	2 24	20 10	30,004,600	.00399
1890	16 06	1 60	2 18	19 84	32,557,500	.00395
1891	17 54	2 14	2 71	22 39	36,843,400	.00395
1892	17 66	1 84	2 56	22 06	38,093,100	.00407
1893	17 84	1 40	2 70	21 94	41,773,600	.00379
1894	18 43	1 51	2 96	22 90	44,142,900	.00374
1895	18 92	1 98	2 86	23 76	46,506,300	.00390
1896	20 00	2 18	3 17	25 35	49,013,050	.00418
1897	20 98	1 73	3 29	26 00	50,173,775	.00444
1898	20 83	1 65	3 22	25 70	50,739,700	.00460
1899	20 80	1 70	3 28	25 78	51,202,350	.00478
1900	21 67	1 60	3 24	26 51	52,513,400	.00496
1901	22 67	1 87	3 56	28 10	53,924,200	.00521
1902	22 52	1 86	3 19	27 57	55,485,370	.00517
1903	22 67	1 95	3 84	28 46	56,981,360	.00535
1904	23 03	1 93	3 52	28 48	58,056,700	.00544
1905	22 50	1 74	3 63	27 87	59,146,600	.00544
1906	22 63	1 92	3 45	28 00	60,371,500	.00546
1907	22 93	2 04	3 65	28 62	61,527,750	.00554
1908	24 21	2 17	3 65	30 03	63,158,400	.00578
1909	24 06	1 76	3 66	29 48	63,659,210	.00575
1910	23 05	2 03	3 59	28 67	66,376,338	.00559
1911	23 50	1 95	3 62	29 07	67,284,066	.00552
*1912	23 61	2 12	3 99	29 72	69,632,540	.00556
*1913	24 54	1 91	4 18	30 63	71,848,811	.00559

* Facts given for school year July 1 to June 30, inclusive.

TABLE 6.—AMOUNT SPENT ANNUALLY FOR ALL SCHOOL PURPOSES

FOR A SERIES OF YEARS.

YEAR.	For New Schoolhouses.	For Repairs and Permanent Improvements.	For Maintaining Schools.	Amount Spent for all School Purposes.
1886	\$15,515	\$8,706	\$99,865	\$114,086
1887	14,839	13,636	106,563	135,038
1888	4,996	13,994	110,354	129,344
1889	20,167	14,225	119,703	154,095
1890	75,775	19,168	128,684	223,627
1891	84,902	14,847	145,588	245,337
1892	12,679	17,734	155,183	176,001
1893	22,809	12,440	158,333	193,582
1894	82,206	44,764	165,155	292,125
1895	87,680	15,651	180,951	284,282
1896	61,016	33,240	204,743	298,999
1897	46,621	20,507	223,273	290,400
1898	49,983	21,274	233,465	304,722
1899	72,516	15,637	244,915	333,068
1900	51,232	21,745	260,403	333,380
1901	49,203	11,000	280,796	340,999
1902	56,501	13,079	286,747	356,327
1903	59,822	12,261	304,946	377,029
1904	23,703	18,209	315,904	357,816
1905	51,987	8,306	321,677	381,970
1906	38,457	11,951	329,346	379,754
1907	31,804	18,008	340,852	390,664
1908	18,271	17,792	365,151	401,214
1909	828	21,195	366,149	388,172
1910		21,864	371,222	393,086
1911	7,149	18,911	371,579	397,639
*1912	35,527	14,163	389,431	439,121
*1913	34,866	19,341	402,092	456,299

*Facts are given for school year July 1 to June 30, inclusive.

TABLE 8.—ATTENDANCE OF THE PUBLIC SCHOOLS FOR THE SCHOOL YEAR 1912—13.

Rooms Used for Classrooms in June	SCHOOLS.	Annual Enrollment.	Average Membership.	Average Attendance.	Per cent. of Attendance.	No. Attending in October.	No. Attending in June.	Average No. to Classroom in June.
39	High . . .	2,081	1,839	1,746	94.9	1,822	1,814	27*
12	Prescott . . .	596	522	494	95.0	512	526	44
11	Hanscom . . .	520	477	439	91.1	430	437	44
10	Bennett . . .	436	358	333	93.1	308	402	40
6	Baxter . . .	301	238	223	93.7	279	217	36
13	Knapp . . .	592	523	495	94.6	527	518	40
6	Perry . . .	276	242	229	94.7	239	237	39
12	Pope . . .	542	503	476	94.7	484	497	41
10	Bell . . .	456	423	400	94.5	431	409	41
4	Cummings . . .	191	200	184	92.1	161	186	46
11	Edgerly . . .	555	473	443	93.6	488	465	42
13	Glines . . .	637	498	470	94.3	551	551	42
17	Forster . . .	784	684	643	93.9	694	662	39
16	Bingham . . .	805	710	667	94.0	727	726	45
16	Carr . . .	713	647	610	94.2	650	631	37
11	Morse . . .	528	467	441	94.5	476	468	42
7	Proctor . . .	334	285	268	93.2	299	283	40
4	Durell . . .	186	163	152	93.1	163	161	40
8	Burns . . .	361	319	300	94.0	325	315	39
10	Brown . . .	526	455	426	93.4	466	428	43
12	Highland . . .	521	480	462	96.3	478	450	38
13	Hodgkins . . .	515	473	452	95.8	463	463	39
12	Cutler . . .	570	525	498	94.9	516	515	40
7	Lowe . . .	358	282	261	92.6	292	299	43
2	Atypical . . .	9	14	12	87.0	15	15	....
3	Boys' Vocational	38	55	51	92.8	50	29	....
4	Girls' Vocational	60	48	41	85.5	48	48	....
289	Total	13,491	11,903	11,216	94.2	11,894	11,752	
281	Total for 1911-12	13,272	11,710	11,083	94.6	11,704	11,364	

* Per teacher.

TABLE 9.—STATISTICS OF HIGH SCHOOL FOR SCHOOL YEAR, SEPTEMBER 9, 1912, TO JUNE 26, 1913.

Number of teachers, including head master	69
Number of days school kept	180
Number enrolled	2,081
Average number belonging	1,839.3
Average daily attendance	1,745.9
Per cent. of attendance	94.9
Tardiness	2,736
Dismissals	384
In Class I-B September, 1912	511
June	432
Per cent. of loss	15.5
In Class I-A February, 1913	190
June	165
Per cent. of loss	13.2
In Class II-A September, 1912	158
June	137
Per cent. of loss	13.2
In Class II-B September, 1912	433
June	390
Per cent. of loss	9.9
In Class III-A September, 1912	61
June	49
Per cent. of loss	19.7
In Class III-B September, 1912	356
June	326
Per cent. of loss	4.9
In Class IV. September, 1912	323
June	307
Per cent. of loss	4.9
Special students, September, 1912	17
June	8
Total, September, 1912	1,859
June	1,814
Per cent. of loss	2.4
Number of graduates, male	125
Number of graduates, female	171
Total	296
Average age, male graduates	18yrs. 7mos.
Average age, female graduates	18yrs. 6mos.
Number entering college	51
Number of graduates entering technical schools	13
Number of graduates entering normal schools	24
Cost of instruction	\$77,026 75
Cost of supplies	9,664 30
Total cost	86,691 05
Per capita cost of instruction	41 88
Per capita cost of supplies	5 25
Total cost per capita	47 13

TABLE 10.—PUPILS BY GRADES, 1913.

SCHOOL.	GRADE.	TEACHERS.			PUPILS, 1913.			PUPILS, 1912.			Never in First Grade Before.	
		Men.	Women.		Boys.	Girls.	Total.	Boys.	Girls.	Total.	1913.	1912.
			Regular.	Assistants.								
High	Special . . .	....	....	....	14	9	23	10	9	19		
"	Thirteenth . .	....	....	....	123	165	288	142	182	324		
"	Twelfth . . .	....	....	....	175	230	405	155	202	357		
"	Eleventh . . .	....	....	....	236	268	504	224	271	495		
"	Tenth . . .	....	....	....	295	342	637	334	338	672		
	Total . . .	22	46	....	843	1,014	1,857	865	1,002	1,867		
Grammar	Ninth . . .	11	23	....	376	388	764	332	386	718		
"	Eighth . . .	....	22	....	464	463	927	452	443	895		
"	Seventh . . .	....	25	1	525	530	1,055	546	560	1,106		
"	Sixth . . .	....	28	....	626	632	1,258	571	582	1,153		
"	Fifth . . .	....	31	....	605	613	1,218	609	639	1,248		
"	Fourth . . .	....	25	....	559	492	1,051	678	593	1,271		
	Total gram-mar . .	11	154	1	3,155	3,118	6,273	3,188	3,203	6,391		
Primary	Third . . .	....	24	....	519	488	1,007	505	491	996		
"	Second . . .	....	30	1	662	620	1,282	495	496	991		
"	First . . .	....	34	2	795	787	1,582	700	641	1,341	1,314	1,048
	Total pri-mary . .	....	88	3	1,976	1,895	3,871	1,700	1,628	3,328		
	Total gram-mar and primary .	....	242	4	5,131	5,023	10,144	4,888	4 831	9,719		
	Kindergarten .	....	4	4	103	117	220	110	100	210		
	Specials. . .	2	11	....	30	16	46	....	....	....		
	Cadets . . .	....	4	....	....	....	....	....	....	....		
	Atypical . . .	....	2	....	15	11	26	9	4	13		
	Boys' Vocational	4	....	....	47	....	47	55	..	55		
	Girls' Vocational	..	9	....	....	67	67	....	50	50		
	Grand total .	39	318	8	6,169	6,248	12,417	5,927	5,987	11,914		

**TABLE 11.—PUPILS IN HIGH AND GRAMMAR SCHOOLS,
1912—1913.**

	High School.	Grammar and Primary Schools.	Kinder- gartens.	Vocational School for Boys.	Vocational School for Girls.	Atypical School.	Total.
Annual enrollment	2,081	10,997	306	38	60	9	13,491
Average membership	1,839	9,741	206	55	48	14	11,903
Average attendance	1,746	9,179	187	51	41	12	11,216
Per cent. of attendance	94.9	94.2	90.8	92.8	85.5	87.0	94.2
Number cases of tardiness	2,736	3,933	...	581	87	17	7,354
Number cases of dismissal	384	2,489	...	122	..	8	3,003
Number cases of punishment . . . . .	....	245	...	...	..	...	245
Membership, October, 1912	1,822	9,739	220	50	48	15	11,894
Membership, June, 1913	1,814	9,638	208	29	48	15	11,752

**TABLE 12.—NUMBER OF PUPILS ADMITTED TO GRADE 1
IN SEPTEMBER AND FEBRUARY.**

School.	1908.	1909.	1910.	1911.	1911-12.		1912-13	
					Sept.	Feb.	Sept.	Feb.
Prescott	33	35	27	38	38	1	44	8
Hanscom	75	42	50	84	69	14	72	23
Davis	35	41	..	..	..	..	..	..
Bennett	99	92	76	68	53	18	38	30
Baxter	46	62	29	28	28	10	33	11
Knapp	39	41	25	23	11	12	34	13
Perry	42	52	20	29	28	12	37	10
Pope	30	39	17	31	28	3	33	7
Bell	38	21	..	11	..	..	..	..
Cummings	34	45	26	41	41	11	55	22
Edgerly	33	35	..	32	32	12	37	17
Glines	60	60	29	49	47	23	55	17
Forster	73	63	20	55	45	19	66	23
Bingham	84	88	29	67	51	36	54	32
Carr	65	64	..	40	16	13	39	19
Morse	57	55	29	34	22	9	49	17
Proctor	55	47	20	39	32	10	41	13
Durell	38	37	12	46	35	9	28	12
Burns	45	55	14	37	28	17	44	13
Brown	73	63	27	51	42	16	47	26
Highland	..	..	..	..	..	..	..	..
Hodgkins	54	52	17	31	31	1	53	27
Cutler	..	..	..	..	..	..	20	22
Lincoln	57	50	25	58	41	22	..	..
Lowe	93	83	29	55	43	19	39	34
Total	1,258	1,222	521	947	761	287	918	396
Grand Total	....	....	....	....	1,048		1,314	

TABLE 13.—GRAMMAR SCHOOL GRADUATES, 1913.

SCHOOLS.	Number receiving Diplomas.	Number Certificated for High School.		Number Entering High School.	
		Conditionally.	Unconditionally.	Conditionally.	Unconditionally.
Prescott	41	4	37	1	27
Knapp	59	7	52	3	32
Pope	39	11	26	7	21
Bell	34	1	33	1	25
Edgerly	51	3	45	1	43
Glines	26	4	22	4	17
Forster	71	3	64	1	52
Bingham	46	7	32	5	22
Carr	43	4	34	7	29
Morse	44	7	38	6	31
Brown	47	1	46	1	39
Highland	113	4	109	3	93
Hodgkins	38	66	30	5	25
Cutler	39	8	30	6	2
Total	691	70	598	51	482

TABLE 14.—COMPARATIVE STATISTICS OF THE TRUANCY DEPARTMENT.

	1911.	1912.	1913.	Change.
Number of cases investigated . .	1,953	1,589	1,674	+85
Number of cases found to be truancy or absenteeism . .	402	426	449	+23
Number of different pupils who were truants or habitual absentees	318	310	331	+21
Number who were truants for the first time	252	235	251	+16
Number who were truants for the second time	96	102	108	+6
Number who were truants for three or more times	54	89	90	+1
Number of girls who were truants or absentees	69	44	42	—2
Number of truants from the high school	20	17	21	+4
Number of truants or absentees from the public schools	329	309	334	+25
Number of truants or absentees from the parochial schools . .	73	117	98	—19
Number of complaints to the court for truancy	12	10	8	—2
Number placed on probation by the court	4	2	3	+1
Number committed to the County Training school	8	9	7	—2
Number of complaints made to the court for illegally keeping children out of school	4	2	0	—2
Number of convictions secured for illegally keeping children out of school	4	1	0	—1
Number of visits to the schools . .	771	975	831	—144
Number of visits to the homes . .	1,810	1,437	1,534	+97
Number of cases of parental neglect of children found and reported to charitable institutions . .	13	10	5	—5
Number of cases of removal of children from the custody of parents by order of the court . .	3	3	0	—3
Number of visits to mercantile or manufacturing establishments . .	49	41	64	+23
Number of minors found to be working without age and schooling certificates	51	57	43	—14
Number of age and schooling certificates issued to boys	264	339	315	—24

TABLE 14 (Continued).—COMPARATIVE STATISTICS OF THE TRUANCY DEPARTMENT.

	1911.	1912.	1913.	Change.
Number of age and schooling certificates issued to girls. . . .	255	249	261	+12
Number of certificates of literacy issued to minors over 16 years of age	374	642	673	+31
Number of newspaper licenses issued to boys 11 to 14 years of age	117	90	140	+50
Number of transfer cards investigated	1,315	1,169	1,412	+243
Number of truants in the County Training school at the close of the year	15	20	13	—7
Amount paid for board of truants	\$548.72	817.96	847.43	+29.47
Salaries of the Truant Officers { Benjamin R. Jones	1,300.00	1,350.00	1,350.00	0
Jairus Mann	50.00	.....	....	....

TABLE 14-A.—TRUANCIES AND ABSENTEEISM BY AGES AND GRADES.

GRADE.	BY AGES.											Totals.
	6	7	8	9	10	11	12	13	14	15	16 or Over	
I.	5	4	2	..	3	..	..	..	2	..	..	16
II.	..	9	8	2	..	..	3	1	..	..	..	23
III.	..	2	9	4	10	7	2	1	..	..	..	35
IV.	..	..	6	13	20	13	10	6	1	..	..	69
V.	..	..	..	..	19	26	25	3	1	2	..	76
VI.	..	..	..	1	2	9	33	23	7	1	1	77
VII.	..	..	..	..	..	2	10	33	13	7	..	65
VIII.	..	..	..	..	..	1	2	6	3	4	..	16
IX.	..	..	..	..	..	..	..	..	9	4	2	15
X.	..	..	..	..	..	..	..	3	3	1	7	14
XI.	..	..	..	..	..	..	..	..	1	1	3	5
XII.	..	..	..	..	..	..	..	..	..	..	2	2
Vocational	..	..	..	..	..	..	..	..	15	7	2	24
Ungraded	..	..	1	2	..	3	2	..	3	1	..	12
Total	5	15	26	22	54	61	87	76	58	28	17	449

TABLE 14-B.—TRUANTS AND ABSENTEES BY SCHOOLS.

School.	No. of Truants.
High	21
Prescott	26
Hanscom	6
Bennett	20
Baxter	8
Knapp	36
Perry	20
Pope	43
Bell	9
Cummings	3
Edgerly	15
Glines	5
Forster	4
Bingham	8
Carr	25
Morse	9
Proctor	9
Durell	3
Burns	7
Brown	2
Highland	6
Hodgkins	15
Lowe	3
Cutler	7
Vocational School for Boys.....	24
Parochial	98
Not attending school; found on street.....	17
Total	449

TABLE 15.—ATTENDANCE IN ELEMENTARY EVENING SCHOOLS, FROM OCTOBER, 1912, TO MARCH, 1913.

		Bell.	Highland.	Total.
Enrolled	Male	539	90	629
	Female	137	37	174
	Total	676	127	803
Ave. membership	Male	215	61	276
	Female	69	23	92
	Total	284	84	368
Ave. attendance	Male	164	45	209
	Female	51	18	69
	Total	215	63	278
Per cent. Att. out of No. belong- ing	. .	75.7	75.0	75.5
Per cent. Att. out of No. en- rolled	. .	31.8	49.6	34.6
Ave. No. of teachers	Male	2	2	4
	Female	17	4	21
	Total	19	6	25
No. of sessions	. .	79	79	158
Teachers, cost of	. .	\$2,742.50	\$860.00	\$3,602.50
Janitors, supplies and lights, cost of	. .	468.28	189.99	658.27
	Total	\$3,210.78	\$1,049.99	\$4,260.77
Cost per pupil per evening	. .	\$0.143	\$0.158	\$0.147
Cost per evening	. .	40.64	13.29	53.93
Cost per pupil in ave. membership	. .	11.31	12.50	11.58
Cost per pupil in ave. attend- ance	. .	14.93	16.67	15.33

TABLE 15 (Concluded).—Evening High School, Season of 1912-1913.

	Male.	Female.	Total.
Enrolled	458	269	727
Average membership.....	319	159	478
Average attendance.....	200	129	329
Number of teachers.....	13	10	23
Number of sessions.....			59
Cost of instruction.....		\$4,053.50	
Cost of supplies and light.....		1,011.49	
Total cost.....		\$5,064.99	
Cost per pupil per evening.....		0.18	
Average attendance: October, 419; November, 384; December, 332; January, 294; February, 266; March, 278.			

TABLE 16.—GRAMMAR SCHOOL GRADUATES
FOR A SERIES OF YEARS.

YEAR.	Prescott.	Bell.	Forster.	Morse.	Highland.	Edgerly.	Pope.	Knapp.	Hodskins.	Glines.	Carr.	Bingham.	Brown.	Cutler.	Total.	Average Membership of Grammar and Primary Schools.	Per cent. of Average Membership Graduating.	Entered High School.	Per cent. Entering of those Graduating.
1890	54	106	45	56	57	39	36	39							318	6,062	5.24	184	57.86
1891	44	73	41	55	44	49									296	6,035	4.90	199	67.23
1892	41	36	75	49	45	46	36	38							370	6,525	5.67	228	61.62
1893	40	60	48	63	67	41	36	38							398	6,674	5.97	240	60.30
1894	39	29	79	66	68	42	35	32							389	6,600	5.89	253	65.04
1895	36	32	58	63	73	46	36	34							374	6,955	5.37	255	68.18
1896	38	34	72	38	70	46	37	35							370	7,201	5.13	281	76.00
1897	34	39	50	48	41	29	30	25	45	27					368	7,602	4.84	273	74.19
1898	36	43	31	46	36	50	36	28	41	35	38				382	8,029	4.75	281	73.56
1899	37	50	62	48	49	40	34	34	39	37	38				468	8,351	5.60	345	73.72
1900	36	45	43	31	43	47	44	34	42	36	33				434	8,689	4.99	317	73.00
1901	34	38	70	43	72	47	43	38	41	35	36				497	8,811	5.64	372	74.80
1902	41	48	61	45	67	46	35	31	32	40	51				497	9,328	5.33	350	70.40
1903	34	45	62	35	65	51	28	34	52	31	47				484	9,362	5.17	354	73.14
1904	31	35	84	46	79	44	36	38	40	36	43				512	9,739	5.26	367	71.68
1905	40	40	74	44	85	47	42	48	61	36	58	31			606	10,298	5.88	463	76.40
1906	35	54	67	44	109	49	44	64	58	40	43	33			640	10,209	6.22	474	74.10
1907	37	62	67	44	126	81	36	56	59	62	60	35			725	10,440	6.94	561	77.40
1908	44	51	71	71	88	50	64	66	61	42	58	36	40		742	10,410	7.13	551	74.26
1909	27	59	73	44	95	82	48	70	55	43	66	36	43		741	10,582	7.00	546	73.68
1910	30	53	72	48	96	68	56	80	62	32	57	39	50		743	10,451	7.10	521	70.12
1911	35	69	82	63	93	48	43	82	73	75	59	37	46		805	10,101	7.97	609	75.65
1912	40	75	79	56	90	70	62	79	62	33	43	47	45		781	9,806	7.96	538	68.88
1913	41	34	71	44	113	51	39	59	38	26	43	46	47	39	691	9,961	6.94	533	77.13
	904	1,210	1,537	1,190	1,771	1,163	900	1,044	861	666	735	440	271	39	12,631	208,221	6.07	9,095	72.00

TABLE 17. — ATTENDANCE STATISTICS

FOR A SERIES OF YEARS.

DECEMBER.	ENROLLMENT.	Average Membership.	Average Attendance.	Per cent. of Attendance.	Number of Tardinesses.	Ratio of Tardiness to Average Attendance.
1886	6,350	4,985	4,678	93.8	2,834	0.606
1887	6,605	5,198	4,879	93.8	2,699	0.553
1888	7,262	5,488	5,174	94.0	2,938	0.549
1889	7,757	5,956	5,585	93.8	2,780	0.498
1890	7,878	6,485	6,075	93.6	3,133	0.516
1891	8,510	6,502	6,091	93.7	3,182	0.522
1892	9,120	7,035	6,608	93.9	3,181	0.481
1893	9,632	7,217	6,790	94.1	3,375	0.497
1894	9,387	7,212	6,840	94.8	3,000	0.419
1895	9,913	7,617	7,255	95.2	2,736	0.377
1896	10,582	8,077	7,663	94.9	2,743	0.358
1897	11,293	8,589	8,144	94.8	2,486	0.305
1898	11,577	9,085	8,636	95.1	2,941	0.341
1899	11,975	9,502	8,965	94.3	2,566	0.286
1900	12,345	9,823	9,174	93.4	2,759	0.300
1901	12,499	9,991	9,350	93.6	2,937	0.294
1902	13,116	10,402	9,733	93.5	3,335	0.343
1903	13,475	10,719	10,056	93.9	3,428	0.342
1904	13,804	11,094	10,422	93.9	3,887	0.373
1905	14,296	11,543	10,897	94.4	3,746	0.344
1906	14,551	11,762	11,069	94.1	4,046	0.366
1907	14,802	11,909	11,166	93.8	4,170	0.373
1908	15,105	12,159	11,458	94.2	3,882	0.344
1909	15,363	12,423	11,666	93.9	4,422	0.379
1910	14,481	12,131	11,435	94.3	4,320	0.378
1911	14,301	11,871	11,186	94.2	6,017	0.538
*1912	13,272	11,710	11,083	94.6	6,307	0.569
*1913	13,491	11,903	11,216	94.2	7,354	0.655

* June.

TABLE 18.—MEMBERSHIP, ETC., OF HIGH SCHOOL
FOR A SERIES OF YEARS.

YEAR.	Average Membership all Schools.	Largest Number in High School.	Per cent. of Average Membership of all Schools.	Number of Graduates of High School.	Per cent. of Average Membership of all Schools.
1867	2,157	119	5.51	7	0.32
1868	2,285	141	6.17	17	0.75
1869	2,480	158	6.37	25	1.01
1870	2,639	165	6.25	16	0.65
1871	2,549	161	6.31	33	1.29
1872	2,799	186	6.64	21	0.75
1873	3,217	190	5.91	28	0.87
1874	3,265	198	6.06	26	0.79
1875	3,515	213	6.06	31	0.88
1876	3,712	226	6.09	33	0.81
1877	3,788	227	5.91	37	0.98
1878	3,992	250	6.26	31	0.78
1879	4,169	246	5.90	34	0.82
1880	4,278	254	5.93	27	0.63
1881	4,064	256	6.29	34	0.84
1882	4,263	280	6.57	33	0.77
1883	4,438	278	6.26	43	0.97
1884	4,804	315	6.55	46	0.96
1885	4,904	385	7.85	46	0.94
1886	4,985	374	6.70	56	1.12
1887	5,198	387	7.44	53	1.02
1888	5,488	435	7.92	60	1.09
1889	5,956	444	7.45	67	1.12
1890	6,485	487	7.51	60	0.93
1891	6,502	535	8.23	68	1.05
1892	7,035	577	8.20	80	1.14
1893	7,217	626	8.67	82	1.14
1894	7,274	691	9.50	111	1.52
1895	7,617	775	10.17	92	1.21
1896	8,077	858	10.62	119	1.47
1897	8,589	885	10.31	121	1.59
1898	9,085	890	9.80	130	1.43
1899	9,502	985	10.70	137	1.49
1900	9,823	1,031	10.49	131	1.33
1901	9,991	1,098	10.99	152	1.52
1902	10,402	1,138	10.94	164	1.58
1903	10,719	1,208	11.27	181	1.70
1904	11,094	1,286	11.60	179	1.61
1905	11,543	1,372	11.89	211	1.83
1906	11,762	1,473	12.52	208	1.77
1907	11,909	1,614	13.55	223	1.87
1908	12,159	1,707	14.04	235	1.93
1909	12,423	1,828	14.71	265	2.13
1910	12,131	1,796	14.80	266	2.20
1911	11,871	1,836	15.47	277	2.33
*1912	11,710	2,023	17.28	296	2.53
*1913	11,903	2,081	17.48	296	2.48

*For school year ending June 30.

**TABLE 19.—PROMOTIONS FOR SCHOOL SEMESTER ENDING
JANUARY 31, 1913.**

GRADE.	On Promotion List.	Unconditionally Promoted One-half Grade.	Promoted on Trial.	Retarded One-half Grade.	Promoted More than One-half Grade.	Special Promotions during the Semester.	Promotees Dropped Back after Two Months' Trial.
I	1,393	1,175	38	154	26	2	..
II	1,014	876	31	96	11	11	7
III	1,014	768	57	158	31	21	14
IV	1,207	902	120	161	24	31	1
V	1,228	925	109	174	20	4	7
VI	1,143	846	166	122	9	9	..
VII	1,130	793	172	136	29	13	5
VIII	866	633	149	66	18	6	11
IX	719	589	79	41	10	4	2
Total	9,714	7,507	921	1,108	178	101	47

Percentage of Promotions for Semester Ending January 31, 1913.

GRADE.	On Promotion List.	Unconditionally Promoted One-half Grade.	Promoted on Trial.	Retarded One-half Grade.	Promoted More than One-half Grade.	Special Promotions during the Semester.	Promotees Dropped Back after Two Months' Trial.
I	100	84.4	2.7	11.1	1.1	0.1	...
II	100	86.4	3.1	9.5	1.0	1.1	14.6
III	100	75.7	5.6	15.6	3.1	2.1	12.8
IV	100	74.7	10.0	13.3	2.0	2.6	0.8
V	100	75.3	8.9	14.2	1.6	0.3	4.6
VI	100	74.0	14.5	10.7	0.8	0.8	...
VII	100	70.2	15.2	12.0	2.6	1.1	3.0
VIII	100	73.1	17.2	7.6	2.1	0.7	7.8
IX	100	81.9	11.0	5.7	1.4	0.3	1.6
Average.	100	77.3	9.5	11.4	1.8	1.0	4.4

TABLE 19.—PROMOTIONS FOR SCHOOL SEMESTER ENDING JUNE 27, 1913.

GRADE.	On Promotion List.	Unconditionally Promoted One-half Grade.	Promoted on Trial.	Retarded One-half Grade.	Promoted more than One-half Grade.	Special Promotions during the Semester.	Promotees Dropped Back after Two Months' Trial.
I	1,394	1,048	149	171	26	6	..
II	1,127	932	63	87	45	4	..
III	988	762	86	88	52	3	8
IV	1,176	918	134	96	28	5	1
V	1,232	979	146	75	32	5	5
VI	1,097	821	163	100	13	..	6
VII	1,053	748	183	109	13	9	5
VIII	942	676	158	85	23	7	8
IX	768	631	91	34	12	1	..
Total	9,777	7,515	1,173	845	244	40	33

Percentage of Promotions for Semester Ending June 27, 1913.

GRADE.	On Promotion List.	Unconditionally Promoted One-half Grade.	Promoted on Trial.	Retarded One-half Grade.	Promoted more than One-half Grade.	Special Promotions during the Semester.	Promotees Dropped Back after Two Months' Trial.
I	100	75.2	10.7	12.3	1.8	0.4	...
II	100	82.7	5.6	7.7	4.0	0.4	...
III	100	77.1	8.7	8.9	5.3	0.3	14.0
IV	100	78.1	11.4	8.2	2.3	0.4	0.8
V	100	79.5	11.9	6.0	2.6	0.4	4.6
VI	100	74.8	14.9	9.1	1.2	...	3.9
VII	100	71.0	17.4	10.4	1.2	0.8	2.6
VIII	100	71.8	10.8	9.0	2.4	0.7	5.4
IX	100	82.2	11.8	4.4	1.6	0.1	...
Average	100	76.9	12.0	8.6	2.5	0.4	4.3

TABLE 19-A.—DISTRIBUTION OF PUPILS BY AGES, OCTOBER 1, 1913.

GRADE.	AGE.																	Total.	Above Normal Age.	Percent. Above Normal Age.
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
Kgn....	4	210	6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	220	.....	....
1 .....	....	48	1,201	267	50	4	2	5	2	1	2	....	....	....	....	....	....	1,582	66	4.2
2.....	....	1	89	749	322	84	22	7	6	....	2	....	....	....	....	....	....	1,282	121	9.4
3.....	....	....	2	93	511	237	112	38	9	1	2	....	....	....	....	....	....	1,007	164	16.2
4.....	....	....	1	13	205	405	249	108	42	21	6	1	....	....	....	....	....	1,051	178	16.9
5.....	....	....	....	....	36	404	368	222	113	54	16	4	....	....	....	....	1	1,218	188	15.4
6.....	....	....	....	....	2	53	382	330	281	149	52	6	2	1	....	....	....	1,258	210	16.5
7.....	....	....	....	....	....	4	68	317	333	213	99	20	1	....	....	....	....	1,055	120	11.4
8.....	....	....	....	....	....	....	3	58	274	317	175	81	15	4	....	....	....	927	100	10.8
9.....	....	....	....	....	....	....	....	....	68	281	255	124	29	7	....	....	....	764	36	4.7
10.....	....	....	....	....	....	....	....	....	9	73	244	213	78	18	2	....	....	637	20	3.1
11.....	....	....	....	....	....	....	....	....	1	13	74	202	145	60	8	1	....	504	9	1.8
12.....	....	....	....	....	....	....	....	....	....	....	5	57	168	125	42	8	....	405	8	2.0
13.....	....	....	....	....	....	....	....	....	....	....	1	6	45	114	87	27	8	288	8	2.7
P. G....	....	....	....	....	....	....	....	....	....	....	....	....	....	5	10	4	4	23	.....	.....
Total.	4	259	1,299	1,122	1,126	1,191	1,208	1,087	1,138	1,123	933	714	483	334	149	40	13	12,221	1,228	10.0
Under Normal Grade.....					50	88	136	163	172	226	179	112	47	30	10	9	9	1,228		
Per cent. under Normal Grade.....					4.5	7.4	11.2	14.7	15.1	20.1	19.2	15.7	9.7	9.0	6.7	22.5	69.2			

This table does not include children in special classes or vocational schools

**TABLE 19-B.—DISTRIBUTION OF PUPILS, 14 BUT NOT 15,
OCTOBER 1, 1913.**

	NUMBER OF GRADES													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	
High.....	..	..	..	..	..	..	..	..	..	244	74	5	1	324
Prescott.....	..	..	..	..	2	3	8	6	19	..	..	..	..	38
Hanscom.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bennett.....	..	..	..	..	2	..	..	..	..	..	..	..	..	2
Baxter.....	..	..	..	3	..	..	..	..	..	..	..	..	..	3
Knapp.....	..	..	1	..	..	4	11	13	17	..	..	..	..	46
Perry.....	..	..	..	..	1	2	..	..	..	..	..	..	..	3
Pope.....	..	..	..	1	..	5	2	11	16	..	..	..	..	35
Bell.....	..	..	..	..	1	1	9	7	19	..	..	..	..	37
Cummings.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Edgerly.....	..	..	..	..	..	5	4	17	26	..	..	..	..	52
Glines.....	..	..	..	..	1	2	1	17	12	..	..	..	..	33
Forster.....	..	..	..	..	..	..	4	19	27	..	..	..	..	50
Bingham.....	1	..	..	..	1	4	13	15	21	..	..	..	..	55
Carr.....	..	1	..	..	2	12	7	16	16	..	..	..	..	54
Morse.....	1	1	..	..	..	4	2	8	13	..	..	..	..	29
Proctor.....	..	..	..	..	1	..	..	..	..	..	..	..	..	1
Durell.....	..	..	..	1	..	..	..	..	..	..	..	..	..	1
Burns.....	..	..	..	..	..	2	6	..	..	..	..	..	..	8
Brown.....	..	..	1	..	1	..	..	2	11	..	..	..	..	15
Highland.....	..	..	..	..	1	7	14	17	35	..	..	..	..	74
Hodgkins.....	..	..	..	1	1	1	9	9	12	..	..	..	..	33
Cutler.....	..	..	..	..	2	..	9	18	11	..	..	..	..	40
Lowe.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
*Specials.....	44	..	..	..	..	..	..	..	..	..	..	..	..	44
Total by grades....	44	2	2	2	6	16	52	99	175	255	244	74	5	977
P.C. by ".....	05	.002	.002	.002	.006	.016	.053	.101	.171	.261	.25	.08	.005	.999

* This number includes children in backward, atypical, non-English speaking and vocational classes.

Nationalities Represented in Elementary Evening Schools.

United States	280	Italy	241
Canada:—		Greece (including Turkey)....	88
Nova Scotia	17	Germany	11
New Brunswick	6	Spain	1
Prince Edward Island	4	Portugal	14
Quebec	2	Azores	17
England	2	Austria	6
Ireland	26	Russia	43
Scotland	1	Finland	6
West Indies	1	Poland	4
Denmark	1	Armenia	6
Sweden	20	Newfoundland	3
France	6		

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TABLE 20.—RESIGNATIONS OF TEACHERS, 1913.

SCHOOL.	Teacher.	Resignation Took Effect.	In Service.
High	Bessie D. Davis	June 26, 1913	12 yrs. 6 mos.
"	Nina G. Moore	March 3, "	3 months
"	*Martha L. Desmond		
"	Natalie A. Smith	June 23, "	4 yrs. 1 mo.
"	William D. Sprague	March 31, "	6 yrs. 7 mo.
"	Mary C. Thurston	June 26, "	15 years
Prescott . . .	Florence A. Eaton	" " "	7 years
"	Susan M. Hosmer	Dec. 19, "	13 yrs. 4 mos.
Hanscom . . .	Mary B. Nelson	" " "	5 years
Bennett . . .	Katharine C. Connolly	June 26, "	16 years
Knapp	Mary J. Malaney	died Nov. 29	3 yrs. 7 mos.
Pope	Lena F. Shaw	June 26, 1913	7 yrs. 9 mos.
Bell	Lavinia C. Cairns	May 26, "	5 months
"	*Annette Hawkes		
"	Emma F. Schuch	June 26, "	38 yrs. 3 mos.
"	Laura A. Mille	" " "	1 year
Bingham . . .	Nellie R. Bray	" " "	15 yrs. 8 mos.
"	Mary E. Hughes	" " "	2 years
Brown	Rena H. Wiley	" " "	7 years
Hodgkins . . .	Beatrice A. Randall	" " "	8 yrs. 3 mos.
Boys' Vocational	Charles R. Johnson	March, "	7 months
Girls' " "	Cornelia B. Rodman	June 26, "	2 years
Sewing Teacher	Bertha P. Paul	May 26, "	13 years

*Did not accept election.

TABLE 21.—TEACHERS ELECTED IN 1913.

SCHOOL.	Teacher.	Coming From.	Began Service.	Salary.
High . . .	Louise B. Hoyle	Barcelona, Spain	Sept. 1913	\$800
High . . .	Gladys S. Jennison	East Bridgewater	Sept. 1913	750
High . . .	Ruth E. Low	Reading	Feb. 1913	700
High . . .	Helen F. Lyon	Somerville	Sept. 1913	600
High . . .	Florence L. McAllister	Needham	Sept. 1913	800
High . . .	Ellen A. Smallwood	Burdett College	Sept. 1913	800
High . . .	Alice A. Todd	Quincy	Feb. 1913	900
High . . .	*Martha L. Desmond	Everett		1,000
Prescott . .	Edith L. Laycock	Rochester	Sept. 1913	650
Prescott . .	Jennie H. Luce	Andover	Sept. 1913	650
Prescott . .	Euphemia K. Potts	Beverly	Sept. 1913	700
Hanscom . .	Hortense F. Small	Reading	Sept. 1908	650
Bennett . .	S. Ellen Brown	East Jaffrey, N. H.	Sept. 1913	650
Bennett . .	Alice M. Hayes	East Jaffrey, N. H.	Sept. 1913	650
Perry . . .	Grace R. O'Neil	Kingston	Dec. 1913	525
Bell . . .	Lillian E. Haskell	Farmington, N. H.	Sept. 1913	700
Bell . . .	Marion T. Noyes	Athol	Sept. 1913	650
Bell . . .	*Annette K. Hawkes	North Attleboro		700
Edgerly . .	Sophia C. Mague	Springfield	Sept. 1913	650
Bingham . .	Maude M. Cunningham	Westbrook, Me.	Sept. 1913	650
Carr . . .	Frances E. Welch	Somerville	Sept. 1908	550
Morse . . .	Lena Munroe	Somerville	Sept. 1903	650
Brown . . .	Katherine T. McMahon	Pittsfield	Sept. 1913	700
Boys' Vocational . .	Chas. A. Kirkpatrick	Business in Boston	Sept. 1913	1,050
Boys' Vocational . .	Francis A. Ryan		Sept. 1913	900
Girls' Vocational . .	Margaret J. Sullivan	Lawrence	Oct. 1913	800

*Did not accept election.

Cadets.

Helen G. Anderson
Ida GoldenMary L. Gallagher
Ruth E. Kingman

Mary J. Dewire

TABLE 22.—LEAVE OF ABSENCE OF TEACHERS.

March 31, 1913, to June 30 1913, Ella P. McLeod.

March, 1913, to June 30, 1914, Emma M. Cate.

November 17, 1913, to January 1, 1914, Mary A. Haley.

TABLE 23.—TRANSFER OF TEACHERS.

TEACHERS.	From	To
Charlotte Holmes	Perry	Teacher of Sewing
Eva E. Perkins	Burns	Highland
Marion A. Viets	Highland	Hanscom
Julia A. Haley	Girls' Vocation'l	High (part time)

TABLE 24.—NUMBER OF TEACHERS
FOR A SERIES OF YEARS.

YEAR.	High School.	Grammar School.	Primary School.	Special Teachers.	Assistants not in Charge of Room.	Men.	Women.	Total.
1886	9	62	48	1	0	9	111	120
1887	10	64	48	1	0	9	114	123
1888	10	66	52	4	7	9	130	139
1889	10	60	56	4	7	10	127	137
1890	10	78	58	5	7	12	146	158
1891	12	86	63	5	13	12	167	179
1892	13	90	67	5	10	12	173	185
1893	14	88	63	5	19	12	177	189
1894	15	91	66	6	11	12	177	189
1895	28	91	73	5	12	19	186	209
1896	30	102	74	6	14	22	208	230
1897	31	109	85*	6	18	22	227	249
1898	32	112	87*	7	13	23	229	252
1899	36	119	92*	7	9	23	240	263
1900	40	127	96*	7	6	24	249	273
1901	44†	130	94*	7	8	26	257	283
1902	45†	140	91*	7	9	26	266	292
1903	46†	143	96*	7	14	25	281	306
1904	48†	152	98*	7	9	27	285	312
1905	48†	153	100*	7	7	27	288	315
1906	54†	157	99*	7	9	29	297	326
1907	57†	160	97*	9	14	32	305	337
1908	58†	164	97*	10	16	34	311	345
1909	59†	166	99*	10	16	36	314	350
1910	63†	165	87*	13	11	41	298	339
1911	62†	164	86*	20	11	40	303	343
1912	66†	168	84*	22	9	40	309	349
1913	68†	166	91*	28	12	39	326	365

*Including four kindergartners.

† Including two secretaries.

‡ Including one secretary.

TABLE 25.—BOOKS AUTHORIZED FOR USE, 1913.

For High Schools.

As text-books.

General Science, Clark.....American Book Company
Laboratory Manual in General Science, Clark,
American Book Company
Elementary Applied Chemistry, Allyn.....Ginn & Co.
Pure Foods, Olsen.....Ginn & Co.
Beginner's French, François.....American Book Company
Exercises in French Composition, Koren.....Henry Holt & Co.
Le Français et Sa Patrie, Talbot.....B. H. Sanborn & Co.
Expert Typewriting, Fritz Eldridge.....American Book Company
The Story of the Ancient Nations, Westerman.....D. Appleton Co.
English Composition, Book II, Stratton D. Brooks,
American Book Company.
Self Cultivation in English, George H. Palmer,
Houghton Mifflin Company

As reference books.

History of Greece, Bury.....Macmillan Company
Catalogue of the Boston Art Museum, collection of Egyptian, Greek
and Roman Art.
Readings in Ancient History, Parts I and II, W. S. Davis,
Allyn & Bacon
Tales from Herodotus, H. L. Havell.....Crowell
Stories in Stone from the Roman Forum, Isabel Lovell,
Macmillan Company
Plutarch's Lives.....Ginn & Co.
Selected Readings in English History, Tuell and Hatch, Ginn & Co.

For Elementary Schools.

As text-books.

Reading-Literature Series, Free and Treadwell, Row, Peterson & Co.
 Art Literature Readers, Chutter and Grover,
 Atkinson, Mentzer & Grover
 New Educational Music Course, Second Reader, McLaughlin and
 Gilchrist Ginn & Co.
 Aldine First Language Book, Bryce and Spaulding....Newson & Co.
 The New Webster-Cooley Course in English Series,
 Houghton Mifflin Company

As supplementary text-books.

City and Town, A Third Reader, Pauline Rafter,
B. H. Sanborn & Co.
Progressive Mental Arithmetic, Books I and II, John B. Gifford,
Thompson, Brown Company

As reference books.

Tarr & McMurry's Geographies.....	Macmillan Company
For the Children's Hour, Bailey and Lewis,	Milton Bradley Company
School and Home Gardens, Meier.....	Ginn & Co.
English Spoken and Written, Emerson and Bender,	Macmillan Company

For Evening High School.

As text-books.

Spanish Without a Master, Vol. 1, M. D. Berlitz.

TABLE 26.—GRADUATION EXERCISES, 1913.**High School.**

The graduation exercises of the high school occurred on Wednesday, June 18, at the First Methodist Episcopal Church, in the presence of a large audience of parents and friends.

The formal address to graduates was given by Augustine L. Rafter, Assistant Superintendent of Schools, Boston.

At the close of the address, the chairman of the School Committee, Henry H. Folsom, presented diplomas to the 297 members of the graduating class.

Order of Exercises.

Henry H. Folsom, Chairman of School Committee, presiding.

1. Overture.
High School Orchestra, Raymond Chaffee, Leader.
2. Singing.
"Kyrie" from "Requiem." Verdi
(with piano and organ)
Soloists—Sopranos—Misses Trolsaas, Davis, Montgomery, Johnson, Bernson.
Altos—Misses Coy, Barber, Sawyer, Underhill, Bourne, Carter, Moran.
Tenors—Messrs. Given and Fuller.
Basses—Messrs. Worthley and West.
3. Prayer.
Rev. George L. Parker.
4. Singing.
"The Lord is My Shepherd." Schubert
(Girls' Voices)
5. Address to Graduates.
Mr. Augustine L. Rafter,
Assistant Superintendent of Schools, Boston.
6. Singing.
Excerpts from opera "Il Trovatore." Verdi
7. Presentation of Diplomas to Girls.
8. Singing.
"Kentucky Babe" (Plantation). Geibel
Boys' Glee Club.
9. Presentation of Diplomas to Boys.
10. Singing.
"Lachrymosa" from "Requiem." Verdi
(Soloists as above)
11. Postlude.
High School Orchestra.

Diplomas will be presented to graduates by Henry H. Folsom, Chairman of School Committee.

Pianist, Miss Mary Ingraham; organist, J. Albert Wilson; conductor, S. Henry Hadley.

All music arranged by Mr. Hadley, Teacher of Music in the High and Grammar Schools.

Piano used is from Chickering & Sons.

SOMERVILLE HIGH SCHOOL.**List of Graduates.****June, 1913.**

Helen Frances Abbott	Florence Gladys Grout
Elsie May Abrams	Mary Theresa Gurvin
Hortense Boaz Aguerre	Esther Hammond
Ruth Van Sciver Alexander	Clara Viola Harris
Carolyn Elizabeth Armitage	Edith Bell Harrison
Ruth Margaret Bailey	Ethel Bernice Heald
Mildred Dorothy Baker	Louise Campbell Herrick
Edith Mae Bakin	Etole Dorothea Hersey
Helen Frances C. Barber	Florence Higgins
Miriam Bernson	Marion Gordon Higham
Mabel Bourne	Katherine Olive Hirst
Helen Standish Bowman	Myrle Avis Holmes
Mary Emma Bragan	Frances Luscombe Homer
Mildred Edna Brown	Claire Elizabeth Honnors
Rose Irene Byrnes	Mildred Bessie Horsman
Ruth Alice Cambridge	Rena May Hunkins
Mildred Parker Carr	Pearl Irene Hunt
Mary Ellen Carroll	Mae Marguerite Innis
Lura Eugenie Carter	Emily Louise Johnson
Beulah Chapin Church	Iola Wiley Johnson
Mabel Evelyn Clough	Virginia Maude Johnson
Elsie Louisa Cobb	Edith Mabel Jordan
Madeline Coy	Collette Angela Kane
Alice Alberta Crane	Agnes Mary Keating
Marion Estelle Cummings	Margaret Mary Kelley
Elinor Cunningham	Rose Louise Kelley
Marion Baynum Davis	Bertha Frances Kerner
Helen May Decelle	Ottis Marv Kincaid
Henrietta Louise Delay	Eva Virginia Lafond
Ellen Gertrude Desmond	Evelyn Myra Lakin
Katherine Frances Dewire	Bernice Sherman Lambert
Marion Helen Dion	Florence Mae Landini
Annie Doctoroff	Ruth Gladys Lane
Grace Elizabeth Dodge	Blanche Helena Lanman
Fanny Bernard Doty	Isabella Mabel Leary
Etta Mabel Elliott	Grace Melden Lewis
Marguerite Ida Elliott	Florence Agnes Lincoln
Helen Margaret Farr	Fannie Miriam Lipshires
Gertrude Dorothea Fellows	Ethel Agnes Lord
Mary Cecilia Fielding	Dorothy Louise Lundgren
Doris Mason Fitch	Helen Gertrude Lynch
Mae Elizabeth Fitzpatrick	Anna Lulu Macdonald
Marion Laura Flagg	Gladys de Almeida Mackay
Gertrude Frances Ford	Mary Rebecca MacLeod
Nellie May Forg	Reta Pearl MacQuarrie
Ruth Marguerite Giles	Arline Frances Maxwell
Eva Mae Givan	Helen Agnes McCarthy
Abbie Gertrude Glover	Estelle Beatrice McCoubry
Elsie Bryant Goddard	Bessie Beatrice McGray
Helen Mae Goddard	Mary Louise McKenna
Edith Leola Gonia	Mary Elizabeth McLaughlin
Gladys May Goodwin	Alice Augusta Meehan
Phyllis Georgia Grace	Elizabeth True Montgomery
Ada Elizabeth Groombridge	Mary Alice Moore
Ethel Mae Gross	Elizabeth Eleanor Moran

Marguerite Mae Morrison
 Helena Mary Muldoon
 Marian Evangeline Munroe
 Pauline Northey Murray
 Mildred Elizabeth Nolan
 Phyllis Noyes
 May Della Nute
 Hazel Lawrence O'Brien
 Lillian Frances O'Neil
 Irene Ruth Orcutt
 Marion Woodbury Parker
 Dorothy Pease
 Emily Isabelle Pepper
 Olive Christine Perkins
 Lucy Margaret Peterson
 Helen Warner Pond
 Alma Louise Porter
 Ruth Lucy Ranger
 Agnes Clare Riley
 Mary Ellen Riley
 Reena Roberts
 Catherine Louise Rose
 Mary Agnes Rundle
 Adele Sampson
 Dorothy Sanderson
 Dorothy Bradley Savage
 Ruth Lenore Sawyer
 Florence Wilhelmina Schroeder
 Editha Augusta Sharkey
 Agnes Elizabeth Sharry
 Jennie Winslow Sherman
 Helen Rosalia Shields
 Marion Kendall Slade
 Edna Ascenath Smith
 Gertrude Blanche Smith
 Vera Smith
 Jennie Louise Starr
 Isabelle Stevenson
 Anna Louise Streb
 Helen Mildred Strom
 Mildred Marie Frances Sullivan
 Clare Louise Sweeney
 Bessie Thorpe
 Mary Winifred Toomey
 Marion Towle
 Helena Leona Trolsaas
 Helen Ruth Turner
 Phoebe Willis Underhill
 Mildred Alberta Upton
 Elsie Gordon Walker
 Dorothy Wells
 Elizabeth Harding Wentworth
 Ruth Hall Wentworth
 Isabel Whiting
 Edith May Williamson
 Ethel Dorothea Wilson
 Margaret Phillips Woodberry
 Ruth Gladys Woodward
 Hazel Belle Wright
 Verne Della Wright

Winifred Wilder Yorke
 Velma Zeigler

 Paul Daniel Ackerman
 Ketchum Abner Alexander
 Chester Edward Ames
 Hubert Elmore Ames
 Ralph Augustus Armour
 James Arrington
 Theodore Edward Baker
 Richard Baker Barlow
 Herbert William Barrett
 Raymond Harding Baxter
 Edwin Wilton Bearse
 Myer Benjamin
 John Howard Bergmann
 Ragnar Walter Berquist
 Thomas Francis Bishop
 William Drew Blunt
 Warren Ellis Bolton
 Albert Lane Bradley
 Clinton John Bradley
 William Osbert Brooks
 Edward Mead Bullard
 Lewis Osgood Card
 Chester Everett Carvell
 Oscar Henry Cederlund
 Raymond Osgood Chaffee
 Walter Grant Cheever
 Earle Richardson Clark
 Edward Vincent Colbert
 Carl Thomas Collingham
 Bernard Dominic Connor
 Charles Daniel Conte
 Edward Lawrence Coogan
 Harold Emery Cook
 Chauncey Ordway Cosgrove
 Edgar Donald Creighton
 John Herbert Crenner
 Wallace Talbot Crispin
 Ralph William Cruikshank
 Manuel Felix Cunha
 Elmer Hathaway Currier
 John Francis Dardis, Jr.
 Roland Crocker Davies
 Philips Sidney Davis
 William Wallace Dougal
 James Edward Dowd
 Jesse Alick Dutelle
 Frank Beaumont Dyson
 Paul Harding Farrow
 Richard Joseph Flaherty
 William Douglas Fleming
 John Forbes
 Theodore Willard Fuller
 Wilfred Joy Fuller
 Francis Lawrence Gallen
 Mark Leo Gannon
 Thomas Joseph Garrick
 Gerald Francis Gillis

John Hamilton Givan, Jr.
 Minott Denham Given
 Lloyd Preston Godshalk
 Donald Welsh Gudakunst
 Ernest Ellis Gustin
 Everett Clayton Ham
 Clifford Hammond Harris
 Clifford Kendall Herrick
 Ralph Hillson
 James Noble Hodgdon
 Lawrence Towle Hopkins
 Sherman Prescott Howard
 Louis Brightman Howland
 Paul Fiske Hunnewell
 Roger Hunnewell
 Eric Alfred Johnson
 Herman Wentworth Jones
 John Joseph Kelley
 Richard Fitz Kendall
 Edward Ralph Kenneson
 Lester Albert Kirkpatrick
 Henry Richard Lacey
 Stanley Vernon Lane
 Ernest Chester Larrabee
 Anthony Philip Laverty
 Harold Bickford Leland
 David Matthew Lipshires
 Joseph Michael Looney
 Angelo Luciano
 Francis James Maloney
 Alfred Freeman McAlpine
 John Joseph McCarthy
 Arthur Hazen Mecham
 Howard Emerson Merrill

Theodore Powers Messer
 William Lester Mills
 John Joseph Mitchell
 Miles Edmund Morgan
 Trueman Greene Morison
 Charles Joseph Nangle
 Seward Emerson Nichols
 Angus Nolan
 Frank Joseph Normile
 Francis Joseph O'Gara
 George Murray O'Neil
 Raymond Parmer
 Edward Archibald Patrician
 Earle Randall
 Harold DeBlois Rice
 Patrick John Scannell
 Charles Francis Sharkey
 Berry Mason Sharp
 Bernard Vincent Shea
 Edwin Paul Shea
 Edward James Shields
 Adolph Randall Soderberg
 George Harold Souther
 John Joseph Sullivan
 Walter Prescott Sweet
 Warren Franklin Terry
 Fred Morgan Thomas
 Harold William Thomas
 Wesley Richard Thomas
 Clarence Easton Turner
 Luther Kern Wedgwood
 Thomas Alfred West
 George Carlton Wiswell
 Harlan Noyes Worthley

TABLE 27.—GRAMMAR SCHOOL GRADUATES.

Graduation exercises of the grammar schools were held in the several grammar school buildings on the afternoon of Wednesday, June 25. A short address, class singing, and awarding of diplomas constituted the programme.

GRAMMAR SCHOOL GRADUATES, FEBRUARY, 1913.

Pope School.

Christopher G. Connelly
 Warren E. Everett
 William Porter Hadley
 Eino A. Hanni
 Mary Elizabeth Hourihan

Walter Theodore Malatesta
 Helen Edna Mellett
 William Ralph Roche
 Grace Audrey Taylor

Edgerly School.

Helen E. Barris
 Dorothy L. Burgess
 Bernice G. Covert
 Grace M. Driscoll
 Esther E. Farnham
 Valda M. Hilton

Mildred G. Krug
 Gladys E. March
 Mildred E. Nutt
 Emma H. Perkins
 Kathleen L. Regan
 Alice Scott

Chester H. Barnes
 Roscoe R. Brenize
 C. Dewey Coyle
 Harold C. Crumby

Albert V. Manley
 Frank J. Mooney
 Arthur V. Oliver
 Thomas J. Powers

Glines School.

Sophie E. Berman
 Olga Elizabeth Massari
 Marguerite Frances Murphy
 Catherine Margaret Welch
 Marie Cecilia Welch

Philip Newell Cook
 Charles William Harvey
 Byron Hansel Murphy
 J. Lambert Weston
 Alexander Youngerman

Forster School.

Gardner C. Abbott
 Doris Adelaide Barber
 Kathryn Studley Clark
 Idella Edwina Emery
 Lawrence Stanley Gallagher
 John A. Grimmons
 Walter Revere Hammond
 Marion Carleton Havlin
 Fred M. Jackson
 James Johnson
 John A. Kane
 Alice A. Keats

Harrie H. McGilvrey
 Frances Mildred McLeod
 Henry J. Mernick
 Mary Catherine Moore
 Helen E. Nangle
 Lillian Frances Prescott
 Elizabeth C. Priebe
 Jessie M. Roberts
 Martha L. Thayer
 Herbert A. Wancky
 Iva A. White

Bingham School.

Theresa H. Crowley
 Charles D. Cullinane
 John E. L. Finnell
 Florence M. Foss
 Paul J. Heiser
 Mary C. Hilton
 Lillian H. Lacey

Thomas E. O'Lalor
 Ferdinand J. Rohwedder
 John H. F. Shea
 Marion G. Stacy
 Harry L. Turner
 William P. Walsh
 Margaret M. Wharf

Carr School.

Anna C. Brennan
 John Howie Brewer
 Lillian D. Caless
 Evelyn M. Daykin
 James Donahue
 William F. Fitzmaurice
 Herbert C. Ham
 Gladys R. Harlow
 Dorothy B. Holmes
 Svea I. Hullquist

Mary F. Keane
 Helene F. Keller
 Thomas F. McGrath
 Caroline F. MacIntosh
 Agnes D. McMath
 Berton L. Murley
 Andrew Orioli
 Thomas F. Ringer, Jr.
 Beatrice L. Wilson

Morse School.

Elizabeth J. Carnes
 Vivian G. Carter
 Esther M. Corcoran
 Lillian Givan
 Margaret A. Graham

Esther M. Hunter
 Florence E. Hunter
 Carrie M. Stevens
 Evelyn D. Truesdale

Brown School.

Sigmond Bernson
 Evelyn Nerissa Briggs
 J. Fred Brittain

Lillian Adelaide Cahoon
 Ruth H. Chapin
 Ruth E. Cunningham

Edna C. Egge
Ernest W. Handley
Nelson Minot Jost
Helen Madeline Kodad

Albert Werner Nelson
Olive Grace Olson
Ruth Runyan
Florence Helen Stiglich

Highland School.

Clifford Thomas Abbott
Catherine Elizabeth Bacigalupo
Helene D. F. Baker
Wiley Mark Blood
Ethel Louise Burt
Percy Edward Burton
Walter Elbert Clapp
Stanley Estey Cliff
Helen Winola Crouse
Estelle May Crowe
Walter Stanley Currie
Kathryn Eleanor Davis
Harold Joseph Downey
Waldo Johnson Flint
James Henry Gillooly
Emma Hibbert
Edith Isabelle Hook
LaForest Harold Johnson
Norna Viola Johnson
Ellen Champion Kennedy
John Selwyn Leland
Alice Grace Le Sueur
Frank Middleton Libbey

Walter James Love
Sadie Marion Lyle
Edna Elizabeth Marsh
Prudence Norcross
Frederick James O'Donoghue
Leona Erica Paaschee
Harold Vincent Ruggles
William Vandesande Schroeder
Esther Augusta Smith
Olga Leona von Sneidern
Madeline Stockwell
Bernice Myrtilla Teele
George Addison Avery Trump
Bertha May Wallace
Viola Mae Webber
Fred Edson Welt
Evelyn Erica Werner
Francis Thomas Whitworth
Mildred Elizabeth Williams
Doris Margaret Williamson
Edward Winslow
Clarence Milton Wood
Hazel Alberta Young

Hodgkins School.

Lawrence A. Testa
Walter L. Repetto
William Andrew Walsh
Jennie Mac Iver
Chester A. Morrill

Charles L. Rundlett
Ruth G. McKusick
John McPhail
Roland D. Pillsbury
Lester L. Schnare

Cutler School.

Ethel T. Lind
Leola G. Smiley
Gladys L. Ramsdell
Earle C. Baker
Virginia Mártyn

Francis B. Hamilton
Ruth E. Jones
L. Bruce Hawes
Jeanette V. McLaughlin
Leslie R. McLaughlin

GRAMMAR SCHOOL GRADUATES, JUNE, 1913.

Prescott School.

Helen Marie Ahlner
Lillian M. Bachelder
A. Marion Bagley
Doris I. Bradt
Helen L. Cameron
De Witt Clinton Cave
Ralph Eaton Chandler
Mary M. Danahy
John F. Desmond
Marie Ellen Dresser
Myron Horace Ferrin

Ambrose Clark Ford
Hilda V. Goron
Melbourne F. Jones, Jr.
Viola Mae Jones
Cassie E. M. Leavitt
Helen E. Lovering
Wilfred Leo Lussier
Charles Everett Lydstone
Mary Ellen MacDonald
Mildred Irene MacKay
Nellie T. McCarthy

Harry Leslie Moore
 Nora Gertrude Murphy
 Thomas Francis Murphy
 Edward G. Murray
 Raphael Northey Murray
 Ellen Elizabeth Noyce
 Jessie Mary Paine
 Ellen C. Powers
 Leslie W. Powers
 Jacob Price

Arthur Robert Ricker
 Hazel G. Rutland
 Maybelle Jessie Sargent
 John W. Schulz
 Lillian Frances Severance
 Dorothea Annette Shay
 Charles E. Walker
 Andrew C. White
 Thelma Louise Young

Knapp School.

Katherine Elizabeth Ayers
 Mildred Edith Baker
 Harold Theron Baxter
 Bessie Janet Berman
 Alfred Charles Bridgens
 Catherine Longmore Bridgens
 Kenneth Ellwin Burns
 Henry H. Cameron
 Ralph E. Campbell
 Elizabeth Madeline Carlin
 Ruth A. Carr
 John Francis Casey
 Mary Armando Catanzano
 Helen Frances Veronica Coakley
 Francis M. Collins
 Ethel Dudley Combie
 Charles Henry Conlon
 Edward J. Cotter
 James William Dalrymple
 Paul Peter Di Fazio
 Henry Edward Duffy
 John Joseph Duffy
 Ruth Evelyn Fisher
 Edmond Francis Flynn
 Mary Gertrude Friel
 Josephine Frances Gallivan
 Helen Gertrude Glynn
 Mary Goldman
 Martha Goldman

Ida M. Gruber
 A. Vernon Harrington
 William John Hayes
 William Henry Hellman
 Olive Frances Hicks
 Florence Elizabeth Howard
 Fannie Katz
 Jennie L. Levy
 Miriam Louise MacWilliams
 Edgar S. Mahoney
 Warren Frederick Marchant
 George Edward McNamara
 Margaret Louise Monroe
 Catherine Mary Murphy
 Edna M. Murray
 Lillian May Perkins
 Mary Janette Quinn
 Frederick Joseph Ramos
 Harriet Marion Reilly
 Anthony G. Rogers
 Marietta Corina Rondina
 Josephine E. Sloane
 George B. Sullivan
 Leo Francis Sullivan
 Gertrude Talalaewsky
 Thomas Alexander Wallace
 Agnes B. Welch
 Raymond Lester White
 Pauline Wolf

Pope School.

John Joseph Bennett
 Winnifred A. Buckley
 Helen C. Carr
 William Joseph Casey
 George Edward Chambers
 Fred Norman Coggin
 Marion Eileen Colbert
 Anna M. Cullen
 Margaret Louise Donovan
 Laura N. Ferris
 Laura M. Flynn
 Albert Harry Giles
 Charles Ernest Gilman
 E. Mildred Hewes
 Chester Arthur Hopkins

John Joseph Linehan
 John Joseph Lynch
 Mary Helen McDonough
 Charles Henry McFaun
 Louise V. Mullin
 Leo Joseph O'Brien
 Russell H. Palmer
 Frederick E. Panzer
 Grace Veronica Reardon
 Lillian Alice Scotti
 Helen Josephine Seasley
 Margaret Theresa Siggins
 Florence A. Sutherland
 Tomsy Taglino
 Louise Elizabeth Whitehouse

Bell School.

Pearl Olga Andreen
 Ruby Helena Andreen
 Bella Backer
 Charles George Brack
 Marguerite Charlotte Cameron
 Helen Mary Carr
 Alice Cheever
 Hazel Leora Cloyes
 Clara Velma Cooper
 Harold Coyne
 Gladys A. B. Croy
 William Franklin De Maris
 Lena Agnes Eaton
 Kenneth Roy Eisnor
 Robert Benson Erb
 Alfred Miller Fish
 Edith Maude Gilliatt

Frank Thomas Hartney
 Mildred Frances Irving
 Helen Augusta Johnston
 Henry Samuel Kaplan
 William Thomas Martin
 Dorothy Maxwell
 Eleanor Brown Maynard
 Anna McNeill
 Agnes Claire Morrison
 Doris Emerson Musgrave
 Gladys Emily Musgrave
 Sherman Elliott Nichols
 Edith Annie Richardson
 Carl Simmons Ryder
 Thelma Marian Seale
 Earl Francis Towne
 Frances Quinby Watson

Edgerly School.

Catherine E. Ash
 J. Reginald Beattie
 John J. Cauley
 Charles L. Chamberlain
 Harold S. Chapman
 William A. Chisholm
 Horace W. Cross
 Margaret E. Donahue
 James Gallagher
 Mabel C. Gallagher
 George F. Gilman
 Marion G. Hall
 Marion H. Janvrin
 Marion L. Jerauld
 Randolph P. Martin
 Arthur H. W. Mollerstrom

Bernice M. Morse
 John J. Murphy
 Florence R. Parker
 John W. Pickering
 Arnold N. Pinto
 Marion G. Quinlan
 Thomas E. Reardon
 Frank A. Ringer
 Julia A. Shaw
 Frances Slaffsky
 Lena R. Snyder
 Gertrude A. Taylor
 Henry F. Welch
 Ernest F. West
 Rose R. Zorowlow

Glines School.

Lester H. Blaisdell
 Olive Blanche Briggs
 Edna L. Dearborn
 Paul T. DeCaro
 Sherman H. Fletcher
 Anna Ellen Hurley
 Grace Maidelle Jones
 Thomas Francis Leahy

Ella L. Marchetti
 Lucy Ellen Murphy
 Isabel Prescott
 W. Howard Rundle
 Madeleine Alice Stone
 Arline W. Summers
 Evelyn M. Wheeler
 Harold E. Williams

Forster School.

Hazel M. Annis
 Ruth Lincoln Avery
 Leon W. Bateman
 Frederic Bryant
 Mildred E. Bump
 Eleanor Dean Campbell
 Maria Otilia Stone Carreiro
 Marion Louise Champlin
 Marjorie D. Corey
 George W. Crane

John A. Daniels
 Margaret Mary Desmond
 Dorothy Dooling
 Oswald Dugmore
 Henry C. Dunton
 Ruth A. Falkenstein
 Gertrude B. French
 Daniel F. Gallagher
 Mary Margaret Geary
 Willma Josephine Gullion

John T. Haggerty	Mabel O'Donnell
Cornelia Josephine Hammond	Alice Dean Padelford
Horace Zaner Hayward	Paul T. Platt
Roland L. Hellman	Lewis B. Robie
John W. Herbert	Bella Ruff
Donald H. Howlett	Marguerite Shea
G. Beatrice Jones	Mary E. Shields
Mary C. Jones	Helen N. Simpson
Alice A. Keats	Edward C. Sutherland
Enid Bartlett Kenney	Clifford T. Trefry
Winifred MacLean Kenney	A. Veronica Walker
Dorothy Marion Macy	Anna B. Urmston
George L. Maynard	Horace Zaner Hayward
Esther Pearl Miller	Louise M. Wyman
Lloyd R. Murray	

Bingham School.

Ruth C. Anderson	Mary A. Kearns
Magdalen M. Bielis	Josephine C. Kelliher
Norburt J. Brown	Marion E. March
Eva Buchinsky	James J. McCarthy
Alberta E. Cappuccio	Thomas F. McGrath
Mabel T. Cappuccio	M. Elizabeth Morris
Harry M. Connelly	Arthur L. Morrissey
Annie F. Delaney	George M. Morrissey
Mary E. Dionne	Mary E. Murley
J. Francis Doherty	Lillian Nixon
James E. Dunford	Hugh C. A. Quessy
Oliver F. Emery	Myra M. Randall
Bernard A. Falvey	William P. Ryan
Blanche G. Foss	Joseph S. Thompson
Annie L. Johanson	Catherine Welch
Harry E. Johnson	Charles J. Wharf

Carr School.

Constantino Albertini	Edward J. Roche
Edward Cape Clark	Hazel A. Creighton
Thomas Leo Creamer	Anna K. Donovan
Edward Herbert Derby	Emily A. Fuller
John M. Flynn	Margaret Holmes
Francis J. Hanlon	Doris Homer
Joseph J. Hoar	Mary R. McHugh
Edward J. Keating	Mary M. Riordan
William S. McAuliffe	E. Grace Sterling
Joseph P. Moran	Amy E. Stone
John J. O'Neill	Louise Tosi
Raymond H. Pierce	Catherine L. Walsh

Morse School.

Helen F. Albee	Grace A. Goodwin
Gladys M. Allingham	H. Paul Guilderson
Helen M. Anderson	Horace Earle Harwood
Vera V. Balcom	Dorothy Arline Haskell
Arnold J. Benson	Edith M. Hattin
Walter J. Cronin	Gladys Bacon Hawkes
Warren E. Dodge	George A. Hawkes
Gertrude V. Doherty	Otto C. Heller
Clinton R. Dondale	Dorothy O. Hopkins
Robert E. Driscoll	Louise M. Komenda
Blanche E. Frost	Alma Marie Locatelli

Frank Mahoney
 Agnes McCarthy
 Beatrice Olive McGuire
 Helen J. Meagher
 Helen L. Merrill
 Ellen Mary Meserve
 Emily O. Miille

Eugene L. Owens
 Robert C. Pound
 Dorothy M. Ryder
 Edward Leo Smith
 Allan M. Tinker
 Dwight L. Wood

Brown School.

Harry Galt Adams
 Gladys Irene Bowditch
 Marion Bowman
 Lucille Jean Cashin
 Tito Dewey Conti
 Marion A. Coye
 Charles Francis Deacon
 Margaret Catharine Donovan
 Kathleen A. Doyle
 Merritt Freeman Farren
 Mildred Benton Fitch
 Alexander Rae Forbes
 Elwyn S. Furniss
 Rozella Mae Gay
 Frank Albert Gilbert, Jr.
 Arthur Norwood Gorham
 Harriett Edna Hamilton

Frances Marion Johnson
 Marguerite Vivian Johnson
 Helen Frances Jordan
 Marion Rose Jordan
 Francis Dexter Kendall
 Mabelle Macdonald
 Lillian Evelyn MacPherson
 Anna H. Murphy
 Philip H. R. O'Donnell
 Olive Lauretta Palmer
 Gordon Forbes Raymond
 Jennie Marie Richmond
 Mildred Cecilia Roche
 Lillian Rubenstein
 Catherine Teresa Sullivan
 Doris Cameron Wood

Highland School.

Charles Young Baker
 Wallace Benjamin Baron
 William LeFebvre Bigley
 Evelyn Beatrice Brooks
 Elsie Barton Bush
 Florence Mignon Charack
 Edna Frances Crowe
 Priscilla Irene Crowell
 Helen Catherine Dinan
 Carroll Thomas Donahue
 Harrison Monroe Douglass
 Lillian Elaine Duhig
 Arthur Calvin Eager
 Frank Addison Eastman
 Robert Christopher Finlayson
 Ralph Colson Gardiner
 Harold Albert Getchell
 Anthony V. Genecco
 George Dares Hall
 John William Hanlon
 Wesley Stuart Hardin
 Doris Estelle Hicks
 Mildred Emerson Hunkins
 Alice Evangeline Johnson
 Clarence Quimby Johnson
 Jason Alexander Johnston
 Nelson Gustave Johnston
 Oscar Walter Johnson
 Inez Ellen Jones
 Isabella Margaret Kellock
 Alice Muriel McGray

Alfred Charles Mortimer
 Earl Justin Moulton
 Phillips Allen Noyes
 William Hartwell Perry
 Hobart Spencer Phelps
 Chester Abel Reynolds
 Francis James Rowe
 John Peter Sanborn
 Ralph Dewey Schurman
 George Cameron Shute
 Raymond Stanley
 Warren Everett Trimble
 John Leyson Vaupel
 Mary Frances Walters
 Raymond Jay Woodman
 Roy Victor Weldon
 Fay Brackett
 Ernest Lionel Dickey
 Walter John Groves
 Edward Sawyer Hodgkins, Jr.
 Helen Clifton Jackson
 Mildred Leonard
 Helene McPhee
 Walter Irving Nickles
 Richard Locke Pigott
 Caroline Mason Piper
 Beatrice Isabel Sanders
 Elizabeth Saunders
 Kenneth Gordon Scott
 Archibald Sime
 Esther Slade

Winifrede Adelaide Stackpole
Olive Mae Stanley
Mildred Hazel Steere

Marjorie Bates Stevens
Natalino John Testa

Hodgkins School.

Lillian E. Austin
Gladys L. Conant
Violet M. Douglass
Edith E. Foster
Pleasant S. Jones
Anna R. Leslie
Burton Merrifield
Henrietta C. Robertson
Mabel V. Taylor
Elva D. Zwicker
Henry R. Bardzik
Louis H. Cousins
Lester M. Ernst
Eleanor Geiger

George E. Jones
Allan J. MacPhail
Kathleen M. Pillsbury
Paul R. Robie
J. Archie Wood
Florence W. Bowen
Stanley C. Cruwys
Marie D. Fitzpatrick
Thomas M. Hatchor
Abbott W. Lawrence
H. Florence McElroy
Mabel E. Reade
James E. Sawyer
Walter A. Wallstrom

Cutler School.

Nellie A. Thompson
Dawn T. Gleason
Theresa Cameron
William George Honold
Ida Tarbox
Clarence E. Manson
Mary Ellen McNamara
Doris G. Ordway
Ethel M. Fowler
Wilda W. Chipman
C. Ernest Cosgrove
Alfrida C. Lind
Russell Fitch
Florence G. Ryan
Henry A. Shea

Mabel L. Hall
William Dudley Howe
Ellen Hamilton Elliott
Geneva L. Russell
Florence M. Aldham
John R. Soper
Gladys E. Dunn
Chancey W. White
Maude M. Richards
John J. Fogarty
Elizabeth C. Sullivan
Raphael M. A. Ungroski
Alden J. Boyd
George F. Richardson

TABLE 28.—ORGANIZATION OF SCHOOL BOARD, 1914.**School Committee**

HENRY H. FOLSOM, ...	Chairman
THOMAS M. CLANCY, ...	Vice-Chairman

Members.**EX-OFFICIIS.**Term expires
January.

ZEBEDEE E. CLIFF, Mayor,	29 Powder House terrace	1915
DAVID H. FULTON, President Board of Aldermen,	599½ Somerville avenue	1915

WARD ONE.

THOMAS A. KELLEY,	39 Pennsylvania avenue	1915
MRS. MARY G. WHITING,	Hotel Wadsworth	1916

WARD TWO.

THOMAS M. CLANCY,	12 Stone avenue	1915
DANIEL H. BRADLEY,	19 Concord avenue	1916

WARD THREE.

ALBERT C. ASHTON,	33 Columbus avenue	1915
GEORGE E. WHITAKER,	75 Walnut street	1916

WARD FOUR.

MARTIN P. HOGAN,	255 Broadway	1915
HARRY A. STONE,	254 Broadway	1916

WARD FIVE.

HERBERT A. MACDONALD,	5 Norwood avenue	1915
HENRY H. FOLSOM,	103 Central street	1916

WARD SIX.

MRS. MARY R. BREWER,	170 Summer street	1915
GUY E. HEALEY,	34 Benton road	1916

WARD SEVEN.

HERBERT CHOLERTON,	94 College avenue	1915
CLARENCE W. WILLIAMS,	205 Morrison avenue	1916

Superintendent of Schools.

CHARLES S. CLARK.

Office: City Hall Annex, Highland avenue.

Residence: 82 Munroe street.

The Superintendent's office will be open on school days from 8 to 5; Saturdays, 8 to 10. His office hours are from 4 to 5 on school days, and 8 to 9 on Saturdays.

Office telephone, 314; house telephone, 12.

Superintendent's office force:—

Justin W. Lovett, 29 Cambria street.

Mary A. Clark, 42 Highland avenue.

Mildred A. Merrill, 26 Cambria street.

Board Meetings.

January 26.	April 27.	September 28.	December 25.
February 23.	May 25.	October 26.	January 1, 1915.
March 30.	June 29.	November 30.	
		8.15 o'clock.	

TABLE 28.—ORGANIZATION OF SCHOOL BOARD, 1914.—Concluded.**STANDING COMMITTEES, 1914.**

Note.—The member first named is chairman.

High School—Folsom, Ashton, Kelley, Bradley, Hogan, Healey, Mrs. Brewer.

District I.—Kelley, Mrs. Whiting, Clancy.

PRESCOTT, HANSCOM, BENNETT.

District II.—Clancy, Bradley, Kelley.

KNAPP, PERRY, BAXTER.

District III.—Ashton, Whitaker, Mrs. Whiting.

POPE, BELL, CUMMINGS.

District IV.—Hogan, Stone, MacDonald.

EDGERLY, GLINES.

District V.—MacDonald, Folsom, Stone.

FORSTER, BINGHAM.

District VI.—Mrs. Brewer, Healey, Folsom.

CARR, MORSE, PROCTOR, DURELL, BURNS, BROWN.

District VII.—Cholerton, Williams, Healey.

HIGHLAND, HODGKINS, CUTLER, LOWE.

Finance—Messrs. Ashton, Kelley, Clancy, Hogan, Folsom, Healey, Williams, Cliff, and Fulton.

Text-Books and Courses of Study—Messrs. Cholerton, Clancy, Whitaker, Stone, MacDonald, Healey, and Mrs. Whiting.

Industrial Education.—Messrs. Clancy, Ashton, Hogan, Stone, Williams, Kelley, and Mrs. Whiting.

School Accommodations.—Messrs. Kelley, Hogan, Stone, Whitaker, MacDonald, Healey, Williams, Cliff, and Fulton.

Teachers.—Messrs. Whitaker, Bradley, Folsom, Cholerton, and Mrs. Brewer.

Playgrounds and School Hygiene.—Mrs. Whiting, Mrs. Brewer, Messrs. Williams, Clancy, and MacDonald.

Rules and Regulations.—Messrs. Bradley, Cholerton, and Ashton.

TABLE 29.—TEACHERS IN SERVICE JANUARY, 1914.

NAME AND RESIDENCE.	Salary.	Began Service.
HIGH SCHOOL.		
Central Hill.		
JOHN A. AVERY, Head Master, 22 Dartmouth Street	\$3,200	1895
Everett W. Tuttle, Master, 62 Highland Avenue	2,250	1895
Frank M. Hawes, Master, 257 School Street	2,000	1879
Charles T. Murray, Master, 28 Franklin Street	2,000	1887
Harry L. Jones, Sub-Master, 137 Powder House Boulevard	1,700	1896
Frank H. Wilkins, Sub-Master, 14 Heath Street	1,800	1906
Roy W. Hatch, Sub-Master, West Medford	1,800	1909
John L. Hayward, Sub-Master, 242 School Street	1,800	1913
Howard W. Poor, Sub-Master, 27 Mt. Vernon Street, Reading	1,700	1896
Harry F. Sears, Sub-Master, Melrose Highlands	1,700	1901
George M. Hosmer, Sub-Master, 13 Arlington Street	1,700	1901
William W. Obear, Sub-Master, 86 Belmont Street	1,700	1906
Laurence A. Sprague, Sub-Master, West Newton	1,700	1906
John M. Jaynes, Sub-Master, 29 Putnam Street	1,600	1901
Guy C. Blodgett, Sub-Master, 92 Belmont Street	1,500	1910
Seth A. Loring, Sub-Master, No. Wilmington	1,600	1911
Walter I. Chapman, Sub-Master, 18 Central Street	1,500	1911
John M. Nichols, 41-A Brent Street, Dorchester	1,600	1913
Augustus B. Tripp, Sub-Master, 67 Wallace Street	1,200	1909
S. Thomas Hall, Sub-Master, 62 Highland Avenue	1,150	1910
Clarence L. Foster, Sub-Master, 25 Gibbens Street	1,150	1911
Edward N. White, Laboratory Assistant, Wellesley Hills	800	1912
A. Marion Merrill, Assistant, 66 Highland Avenue	1,200	1895
Frances W. Kaan, Assistant, 133 Central Street	1,200	1882
Helen L. Follansbee, Assistant, 40 Vinal Avenue	1,200	1900
Mrs. Lena Gilbert, Assistant, 51 Elmwood Street	1,000	1892
Harriet E. Tuell, Assistant, 10 Harvard Place	1,000	1899
Elizabeth Campbell, Assistant, 15 Pleasant Avenue	1,000	1902
A. Laura Batt, Assistant, 66 Highland Avenue	1,000	1895
M. Helen Teele, Assistant, 11 Jason Street, Arlington	1,000	1895
Clara A. Johnson, Assistant, 177 Central Street	1,000	1897
Elizabeth H. Hunt, Assistant, 121 St. Stephen Street, Boston	1,000	1908
Mabel G. Curtis, Assistant, Cambridge	1,000	1903
Mary E. Hadley, Assistant, Arlington Heights	1,000	1907
Anna Pushee, Assistant, 10 Harvard Place	1,000	1904
Blanche S. Bradford, Assistant, 161 Summer Street	1,000	1903
Grace E. W. Sprague, Assistant, Cambridge	1,000	1908
Eudora Morey, Assistant, Boston	900	1874
Ella D. Gray, Assistant, 147 Walnut Street	900	1901
Nellie H. Swift, Assistant, 49 Vinal Avenue	900	1904
Ruth Tousey, Assistant, 106 Professors Row	900	1904
Bessie L. Forbes, Assistant, 92 Orchard Street	900	1899
Bertha A. Raymond, Assistant, 85 Central Street	900	1900
F. Gertrude Perkins, Assistant, 67 Thurston Street	900	1906
Mabel Butman, Assistant, 49 Boston Street	900	1906
Grace Gatchell, Assistant, 49 Vinal Avenue	900	1906
Kate M. Monro, Assistant, 133 Central Street	900	1909
A. Marguerite Browne, Assistant, Cambridge	900	1908
Edith L. Hurd, Assistant, 125 Central Street	900	1910
Nancy B. Kimball, Assistant, Malden	900	1910
Julia T. Connor, Assistant, 59 Church Street	900	1911
Esther Parmenter, Assistant, 17 Magnolia Street, Arlington	900	1910
Annie C. Woodward, Assistant, 150 School Street	900	1906
Bertha Bray, Assistant, 98 Professors Row	900	1911
Alice A. Todd, Assistant, 82 Munroe Street	900	1913
Hattie M. Baker, Assistant, 70 Pearson Avenue	800	1911
Mary F. Osborne, Assistant, 67 Boston Street	800	1911
Ella W. Bowker, Assistant, 2 Hillside Avenue	800	1911
Ellen A. Smallwood, Assistant, 53 Chester Street	800	1913
Florence L. McAllister, Assistant, 23 Wallace Street	800	1913
Louise B. Hoyle, Assistant, 124 Summer Street	800	1913
Edith R. Macurdy, Assistant, Watertown	750	1911
Gladys S. Jennison, Assistant, 78 Highland Avenue	750	1913
Marion F. Orne, Assistant, 43 Fairmount Avenue	700	1912
Ruth E. Low, Assistant, Reading	700	1913
Ilene C. Ritchie, 17 Willoughby Street	600	1912
Helen F. Lyon, Assistant, 392 Broadway	600	1913
Mabell M. Ham, Clerk, 41 Boston Street	800	1906

TABLE 29.—Teachers in Service January, 1914.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
(WILLIAM H.) PRESCOTT SCHOOL.			
Pearl and Myrtle Streets.			
9.	SAMUEL A. JOHNSON, Master, 83 Thurston Street	\$1,900	1893
9.	Elizabeth M. Warren, 46 Vinal Avenue	875	1897
*8.	Emma M. Cate, 15 Fletcher Street, Winchester	750	1882
8.	Jennie H. Luce, 223 School Street	650	1913
8, 7.	Edyth M. Grimshaw, Readville	800	1909
7.	Euphemia K. Potts, 13 Langmaid Avenue	700	1913
6.	Mary L. Abbott, 136 Hemenway Street, Boston	800	1910
6.	Edith L. Laycock, 43 Franklin Street	650	1913
5.	Angie M. MacRitchie, Concord Junction	750	1912
4.	Clara Taylor, 36 Flint Street	800	1871
3.	Elizabeth L. Marvin, 17 Summit Street	800	1898
2.	Louise E. Pratt, 110 Pearl Street	800	1889
1.	A. Louise Bean, 8 Hamlet Street	800	1904
SANFORD HANSCOM SCHOOL.			
Webster and Rush Streets.			
4.	ELIZABETH M. COLLINS, Principal, 2 Madison Street	\$1,500	1901
Asst.	Mrs. Agness M. Travis, Winthrop Highlands	850	1908
5.	Carrie M. Frost, 220-A Pearl Street	700	1912
4.	Marion A. Viets, Cambridge	700	1912
4, 3.	Frances E. Robinson, 182 Pearl Street	800	1908
3.	Jennie M. Twiss, 67 Berkeley Street	800	1903
2.	Maude A. Nichols, 15 Pleasant Avenue	800	1906
2.	Martha L. Littlefield, 65 Glen Street	800	1897
1.	Hortense F. Small, 91 Electric Avenue	650	1912
1.	Alice M. Saben, 110 Pearl Street	650	1903
Kind'n.	Elizabeth J. Baker, 49 Vinal Avenue	700	1907
Asst.	Florence M. Shaw, 68 Central Street	525	1909
VOCATIONAL SCHOOL FOR BOYS (Day).			
Davis Bldg., Tufts Street.			
	E. Minor Morse, Principal, 34 Ware Street	\$1,500	1910
	Charles A. Kirkpatrick	1,050	1913
	Nehemiah E. Gillespie, 117 Davis Street, Wollaston	1,050	1911
	Francis A. Ryan, Canton, Mass.	900	1913
CLARK BENNETT SCHOOL.			
Poplar and Maple Streets.			
5.	ELIZABETH M. COLLINS, Principal, 2 Madison Street		1912
Asst.	Kate B. Gifford, 66 Highland Avenue	\$850	1902
5, 4.	S. Ellen Brown, 8 Aldersey Street	650	1913
4, 3.	Mrs. Nettie L. Fay, 12 Grand View Avenue	800	1901
3.	Nellie F. Eaton, 15 Pleasant Avenue	800	1906
2.	Eleanor W. Nolan, 13 Pleasant Avenue	800	1909
2.	Isadore E. Taylor, 36 Flint Street	800	1883
1.	Alice M. Hayes, 21 Highland Avenue	650	1913
1.	Mrs. Cora B. Gowen, 50 Vinal Avenue	800	1906
Kind'n.	Caroline G. Baker, 40 Benton Road	700	1896
Asst.	Helen Harrington, 28 Hurlburt Street, Cambridge	350	1912
ngraded	Sarah H. Sweeney, Roxbury	600	1913
Uon-Eng.	Lillias T. Lawton, Dorchester	500	1913

* Leave of absence.

TABLE 29.—Teachers in Service January, 1914.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
GEORGE L. BAXTER SCHOOL.			
Bolton Street.			
5.	MARY G. BLACKWELL, Principal, 45 Ibbetson Street . . .	\$875	1900
4.	Etta R. Holden, 14 Sanborn Avenue	800	1908
3.	Julia A. Mahoney, 16 Parker Street	800	1904
2.	Sue A. Fitzpatrick, 451-A Somerville Avenue	650	1912
1.	Maria D. McLeod, 1 Highland Park, Cambridgeport	800	1906
Kind'n.	Eleanor A. Connor, 59 Church Street	700	1903
Asst.	Martha W. Delay, 48 Beacon Street	425	1911
OREN S. KNAPP SCHOOL.			
Concord Avenue.			
9.	JOHN SHERBURNE EMERSON, Master, 3 Preston Road . . .	\$1,900	1894
9.	Bessie N. Page, 6 Aldersey Street	825	1911
9, 8.	Nellie Theresa McCarthy, Woburn	800	1909
8, 7.	Minnie A. Holden, 14 Sanborn Avenue	800	1906
7.	Clara B. Parkhurst, 22 Highland Avenue	800	1889
7.	Clara B. Sackett, 91 Summer Street	800	1891
6.	Edith Hersey, 154 Washington Avenue, Chelsea	800	1899
6.	Florence M. Hopkins, 65 Chandler Street	800	1907
5.	Nona E. Blackwell, 45 Ibbetson Street	700	1906
4.	Annie E. Robinson, 31 Warren Avenue	800	1876
3.	L. Gertrude Allen, 230 Washington Street	800	1884
2.	Minnie Alice Perry, 21 Summit Avenue	800	1891
1.	M. Edith Callahan, Woburn	750	1911
ALBION A. PERRY SCHOOL.			
Washington Street, near Dane Street.			
6.	CATHERINE E. SWEENEY, Principal, 633 Broadway	\$875	1901
5.	Mary A. Mullin, 27 Shawmut Street	700	1910
4.	Irene Vincent, 47 Vinal Avenue	800	1903
3.	Alice L. Reid, 37 Spring Street	700	1910
2.	Grace R. O'Neil, 347 Washington Street	525	1913
1.	Mrs. Sarah E. Murphy, 21 Fountain Avenue	800	1906
CHARLES G. POPE SCHOOL.			
Washington and Boston Streets.			
9.	GEORGE M. WADSWORTH, Master, Whitman	\$1,900	1891
9.	Florence A. Chaney, 56 Boston Street	950	1892
9, 8.	Alice I. Norcross, 90 Russell Avenue, Watertown	800	1885
8.	Harriet M. Clark, 10 Vernon Street, West Medford	800	1893
7.	Mrs. Blanche G. North, 103 Kidder Avenue	800	1893
7.	M. Abbie Tarbett, 11 Washington Street, Stoneham	800	1906
6.	Emma J. Kennedy, 9 Pleasant Avenue	750	1912
6.	Edith L. French, 17 Aldersey Street	700	1912
5.	Lizzie W. Parkhurst, 22 Highland Avenue	800	1885
4.	Annie G. Sheridan, 84 Prospect Street	800	1886
3.	M. Katherine Davis, 11 Harvard Place	800	1904
2.	Florence E. Locke, 9 Prospect Hill Avenue	800	1899
1.	Alice B. Frye, 131 Buckman Street, Everett	800	1904

TABLE 29. — Teachers in Service January, 1914. — Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
LUTHER V. BELL SCHOOL.			
Vinal Avenue.			
9.	GEORGE M. WADSWORTH, Master, Whitman		1912
9.	Alice L. Davis, 40 Vinal Avenue	\$950	1895
9.	Rena S. Hezelton, 26 Cambria Street	825	1909
8.	Marion T. Noyes, 71 Berkeley Street	650	1913
8, 7.	Eva R. Barton, Stoneham	800	1904
7.	Lillian E. Haskell, 41 Putnam Street	700	1913
6, 5.	Julia A. Simmons, 49 Laurel Street	750	1911
6.	Mrs. Mabel T. Totman, 17 Pleasant Avenue	800	1893
5, 4.	Mrs. Grace T. Loneran, Charlestown	600	1912
5.	Ella H. Bucknam, 8 Aldersey Street	800	1897
4.	M. Eunice Young, Winchester	750	1912
(JOHN A.) CUMMINGS SCHOOL.			
School Street, near Highland Avenue.			
	GEORGE M. WADSWORTH, Master, Whitman		1912
3.	FANNIE L. GWYNNE, Principal, 65 School Street	\$825	1886
2.	Angeline Cann, Hotel Woodbridge	800	1897
2, 1.	Elizabeth L. Hersey, 26 Gibbens Street	800	1896
1.	Lucia Alger, 152 Summer Street	800	1889
(JOHN G.) EDGERLY SCHOOL.			
Cross and Bonair Streets.			
9.	CHARLES E. BRAINARD, Master, 82 Munroe Street	\$1,900	1889
9.	M. Eva Warren, 151 Walnut Street	875	1906
9, 8.	Annie L. Dimpsey, Hotel Woodbridge	800	1891
8.	Mary E. Richardson, 9 Pleasant Avenue	800	1893
7, 6.	Mabel C. Mansfield, 9 Pleasant Avenue	800	1893
7.	Isabelle M. Gray, 23 Webster Street	800	1897
6.	Edith M. Snell, 4 Vine Street, Melrose	800	1900
6, 5.	G. Hortense Pentecost, 154 Walnut Street	800	1905
6, 5.	Sophia C. Mague, Auburndale	650	1913
5, 4.	J. Louise Smith, 196 Washington Street, Lynn	800	1896
4, 3.	Lillian Nealley, 109 Glen Street	800	1882
2.	Alice W. Cunningham, 62 Highland Avenue	800	1901
1.	Martha M. Power, 37 Gleason Street, West Medford	800	1890
JACOB T. GLINES SCHOOL.			
Jaques Street, near Grant Street.			
9.	MARY E. NORTHUP, Master, 9 Forster Street	\$1,900	1878
9.	Mary E. Stiles, 9 Forster Street	875	1883
8.	Lilla M. Marble, 85 Heath Street	800	1902
8.	L. Alice Grady, 85 Heath Street	750	1912
7.	Louise V. Richardson, 19 Rhode Island Avenue	800	1907
6.	Ellen A. Boynton, 67 Thurston Street	800	1891
6, 5.	Margaret A. Orr, 15 Blagden Street, Boston	800	1890
5, 4.	Mary A. Goddard, 9 Winter Hill Circle	800	1893
4, 3.	Mrs. Carrie Armitage, 57 Madison Street	800	1899
3, 2.	Florence E. Baxter, 49 Hudson Street	800	1891
2.	Anna G. Welch, 22 Fenwick Street	800	1897
2, 1.	Leslie Caverly, 210 Washington Avenue, Chelsea	800	1908
1.	Isabel J. Tift, 37 Madison Street	800	1892
Kind'n.	Mrs. Etta D. Ellsworth, Trinity Court, Boston	700	1897
Asst.	Ida M. Kane, 28 Fellsway West	525	1905

TABLE 29.—Teachers in Service January, 1914.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
(CHARLES) FORSTER SCHOOL.			
Sycamore Street and Evergreen Avenue.			
9.	JOSEPH A. EWART, Master, 85 Bartlett Street	\$1,900	1913
9.	Irene S. Nightingale, 12 Court Street, Arlington	875	1895
9.	Emma G. Blanchard, 146 Mass. Ave., Boston, Suite 622	825	1902
8.	Emma M. Damon, 64 Vinal Avenue	800	1908
8.	Edna F. Scott, 75 Munroe Street	750	1912
7.	Nellie L. Quennell, 244 Broadway	750	1912
7.	M. Edna Merrill, 228 Broadway	800	1909
6.	Mrs. Mina P. Bickford, 216 Park Street, Medford	800	1903
6.	Elizabeth F. Clement, 29 Kidder Avenue	800	1884
6.	Mary I. Bradish, 112 Magoun Avenue, Medford	800	1899
5.	Elizabeth S. Brown, 11 Dartmouth Street	800	1897
4, 3.	Laura R. Cunningham, 62 Highland Avenue	800	1904
4.	Annie S. Gage, 32 Marshall Street	800	1881
3.	Mrs. Annie J. Ireland, Winchester	800	1909
2.	Martha L. Hale, 157 Highland Avenue	800	1899
2.	Carrie T. Lincoln, 79 Marshall Street	800	1893
1.	Cora J. Demond, 146 Massachusetts Avenue, Boston	800	1900
1.	Grace Shorey, 23 Forster Street	800	1892
(NORMAN W.) BINGHAM SCHOOL.			
Lowell Street, near Vernon Street.			
9.	HARRY F. HATHAWAY, Master, 495 Broadway	\$1,900	1890
9.	Elizabeth J. O'Neil, 82 Benton Road	950	1894
9, 8.	Elizabeth J. Mooney, 168 Summer Street	800	1904
8, 7.	Jane Batson, 72 Mountain Avenue, Malden	800	1900
7.	Mary F. Mead, 35 Kidder Avenue	800	1905
7, 6.	Catherine Heagney, 32 Sewall Street	750	1912
6.	Lucy K. Hatch, 103 Glenwood Road	800	1892
5.	Harriet F. Ward, 202 School Street	800	1895
5.	Maude M. Cunningham, 23 Albion Street	650	1913
5, 4.	Helen L. Galvin, Braintree	800	1903
4.	Eva M. Barrows, Medford	800	1903
4.	Bessie J. Baker, Malden	800	1905
3, 2.	Harriet M. Bell, 62 Highland Avenue	800	1904
2.	Clara L. Griffiths, 39 Ames Street	800	1902
2, 1.	Lynda V. Merrill, 26 Brastow Avenue	650	1912
1.	Priscilla A. Merritt, 96 Oxford Street	800	1885
1.	Mabel E. Mansir, 77 Albion Street	800	1894
Asst.	G. Marion Lovering, 27 Flint Street	350	1913
MARTIN W. CARR SCHOOL.			
Beech Street.			
9.	CHARLES G. HAM, Master, Watertown	\$1,900	1898
9.	May E. Berry, 14 Billingham Street	875	1880
9, 8.	Clara D. Eddy, 71 Central Street	825	1902
8.	Mrs. Mary E. Soule, 39 Walnut Street	800	1901
7.	Harriet A. Hills, 14 Billingham Street	800	1874
7.	Mrs. M. Florence Eustis, 9 Monmouth Street	800	1906
6.	Marie T. Smith, 15 Day Street	800	1898
6.	Susie L. Luce, 21 Francesca Avenue	800	1896
6.	Leila L. Rand, 87 Raymond Street, Cambridge	800	1908
5.	Mary A. Haley, 117 Summer Street	800	1867
5.	Grace T. Merritt, 47 Cherry Street	800	1897
5.	Elizabeth S. Foster, 152 Summer Street	800	1895
4.	Katherine Pike, 152 Summer Street	800	1906
3, 2.	Blanche L. Paine, 59 Berkeley Street	800	1905
3.	Mrs. Lillian M. Wentworth, 248 Highland Avenue	800	1911
2.	Annie B. Russell, 45 Russell Street	800	1901
1.	Pearl F. Dame, 1 Ellsworth Street	750	1906
1.	Frances E. Welch, 303 Highland Avenue	550	1908
Asst.	Mabel Ingham, 27-B Summer Street	350	1912

TABLE 29.—Teachers in Service January, 1914.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
GIRLS' VOCATIONAL SCHOOL.			
41 Atherton Street.			
	Mary Henleigh Brown, Director, 11 Everett St., Cambridge	\$1,600	1911
	Helen C. French, 60 Adams Street	400	1912
	Mary Donoghue, 21 St. James Avenue	800	1911
	Margaret J. Sullivan, 49 Vinal Avenue	800	1913
	*Julia Haley, 88 Prospect Street	800	1911
	Theresa Morrison, 8 Johnson Avenue, Charlestown	400	1912
	Lucy Dorr, 121 St. Stephen Street, Boston	700	1911
	Marion P. Crawford, 124 Summer Street	800	1911
	Mrs. Helen G. Leitch, 93 Liberty Avenue	800	1913
(ENOCH R.) MORSE SCHOOL.			
Summer and Craigie Streets.			
9.	MINA J. WENDELL, Master, 211-A Summer Street	\$1,900	1882
9.	Mrs. Harriette C. Hamilton, 219 Summer Street	875	1900
8.	Mrs. Clara A. Ball, 2 St. Paul Street, Cambridge.	800	1906
7.	Lennie W. Bartlett, 152 Summer Street	800	1893
7, 6.	Mrs. Jennie E. Stevens, 9 Bradford Avenue	600	1912
6.	Blanche E. Thompson, 33 Hudson Street	800	1906
5.	Lizzie E. Hill, 40 Magnolia Street, Dorchester	800	1890
5, 4.	Mrs. Elva A. Cutler, 12 Billingham Street	750	1911
4, 3.	Helen O. Locke, Everett	750	1912
3, 2.	Mrs. Agnes C. Rice, 9 Bradford Avenue	800	1900
2, 1.	Lena Munroe, 211-A Summer Street	650	1913
1.	Elizabeth V. Frame, 84 Lincoln Street, Melrose	600	1912
1.	Helen L. Tuck, Revere	750	1912
GEORGE O. PROCTOR SCHOOL.			
Hudson Street.			
	HARRY F. HATHAWAY, Master, 495 Broadway		1912
7.	NORA F. BYARD, Principal, 27 College Avenue	\$950	1884
6.	Alice G. Hosmer, 42 Boston Street	800	1906
5.	Abbie A. Gurney, 88 Belmont Street	800	1888
4.	Ella P. McLeod, 109 Highland Avenue	800	1888
3.	Edith L. Hunnewell, 23 Milton Street	800	1894
2.	Mary S. Richardson, 13 Bartlett Street	800	1906
1.	L. Margaret Potter, 56 Norfolk Street, Cambridge	800	1905
GEORGE W. DURELL SCHOOL.			
Beacon and Kent Streets.			
4.	ABIGAIL P. HAZELTON, Principal, 36 Dana Street, Cambridge	\$825	1902
3.	Grace E. Packard, Cambridge	750	1912
2.	Mary Winslow, 23 Hall Street	800	1887
1.	Alice M. Dicker, East Boston	600	1912
MARK F. BURNS SCHOOL.			
Cherry Street, near Highland Avenue.			
7.	LAURA J. BROOKS, Principal, 31 Stevens Street, Stoneham	\$950	1883
Asst.	Mrs. Mary C. Buck, 12 Powder House Terrace	400	1899
6.	Cara M. Johnson, 9 Wendell Street, Cambridge	800	1897
5.	Edith A. Maxwell, 17 Pleasant Avenue	800	1906
4.	Mrs. Margaret D. Hellyar, Oak Street, Greenwood	750	1909
3.	Annie L. Brown, 10 Charnwood Road	800	1885
2.	Mary E. Lacy, 63 Cherry Street	800	1890
2, 1.	Ardelle Abbott, 71 Craigie Street	800	1896
1.	Alice E. Morang, 38 Cambria Street	800	1893

* Part time in High School.

TABLE 29.—Teachers in Service January, 1914.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
BENJAMIN G. BROWN SCHOOL.			
Willow Avenue and Josephine Avenue.			
9.	GEORGE I. BOWDEN, Master, 92 Monument St., West Medford	\$1,900	1908
9.	Annie G. Smith, 59 Maple Street, Malden	875	1901
8.	Mrs. Phebe E. Mathews, 159 Morrison Avenue	800	1897
7.	Frances D. Way, Roxbury	700	1911
6.	Alice R. Gould, 12 Fosket Street	700	1911
6, 5.	Annie Sanburn, 20 Ashburton Place, Boston	800	1906
5, 4.	Mary T. Ford, 26 Gibbens Street	800	1911
4, 3.	Ida M. Record, 26 Gibbens Street	800	1899
3, 2.	Alice M. Dorman, 159 Morrison Avenue	800	1903
2.	Mrs. Grace H. Bliss, 28 Fairmount Avenue	800	1900
1.	Katherine T. McMahon, 168 Summer Street	700	1913
HIGHLAND SCHOOL.			
Highland Avenue and Grove Street.			
9.	FRANK W. SEABURY, Master, 18 Winslow Avenue	\$1,850	1911
9.	Grace M. Clark, 10 Vernon Street, West Medford	875	1893
9.	Marguerite Burns, 15 Kidder Avenue	825	1907
9, 8.	Sarah E. Pray, 36 Pearson Road	825	1877
8.	Mary L. Bryant, 24 Hall Avenue	800	1903
8.	Mrs. Nellie G. Stewart, 1105 Broadway	800	1908
7.	Elsie M. Ross, Ipswich	800	1908
7.	Elizabeth S. Smith, 14 Irving Street	800	1912
6.	Lillian F. Richardson, 33 Wallace Street	800	1904
6.	Marie Clifford, 1583 Massachusetts Avenue, Cambridge	800	1907
6, 5.	Mary H. Joyce, 76 Boston Street	800	1891
5.	Marion Allen, Danvers	750	1911
5.	Eva E. Perkins, 54 Benton Road	700	1911
WILLIAM H. HODGKINS SCHOOL.			
Holland Street.			
9.	ARTHUR L. DOE, Master, 108 Packard Avenue	\$1,900	1896
9.	Edith W. Emerson, 135 Central Street	875	1896
8.	Alice S. Hall, 135 Central Street	800	1896
7.	Mrs. Gertrude W. Leighton, 26 Gibbens Street	800	1895
6.	Isabel M. Brunton, 19 Hanson Street	650	1910
6, 5.	Flora A. Burgess, Arlington Heights	800	1894
5.	Catherine A. Burden, 28 College Avenue	800	1902
4.	Genieve R. Barrows, 52 Westland Avenue, Boston	800	1905
4, 3.	Katherine M. Fox, Stoneham	800	1896
3, 2.	Inez Prentiss, 27 Hall Avenue	700	1913
2.	Jennie M. Patterson, Mattapan	800	1903
1.	May V. Powell, 47 Centre Street, Malden	750	1913
1.	Nellie F. Wright, 897 Broadway	750	1912
Asst.	Mrs. Agnes M. Fletcher, 19 Waldo Street	500	1913
CUTLER SCHOOL.			
Powder House Boulevard, near Raymond Avenue.			
9.	HARLAN P. KNIGHT, Master, Barton Street	\$1,900	1897
9.	N. Irene Ellis, 29 Newbury Street	875	1903
8.	Elizabeth R. Henderson, 93 Ossipee Road	750	1912
7.	Katherine A. Breen, 81 Avon Street	750	1912
8.	Lilla E. Mann, 18 Francesca Avenue	800	1902
6.	Cora E. Crawford, Boston	700	1912
5.	Elinor Neilon, 14 Cambria Street	650	1912
5, 4.	Anna L. Brown, 14 Irving Street	750	1912
4, 3.	Olevia M. Woods, 116 Powder House Boulevard	700	1908
3, 2.	Eliza H. Lunt, 50 Curtis Street	800	1889
2.	Almena J. Mansir, 77 Albion Street	800	1899
1.	Annie H. Hall, 97 College Avenue	800	1906
2, 1.	Edna F. Gordon, 10 Locke Street	750	1912

TABLE 29.—Teachers in Service January, 1914.—Concluded.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
MARTHA PERRY LOWE SCHOOL.			
Morrison Avenue, near Grove Street.			
	FRANK W. SEABURY, Master, 18 Winslow Avenue		1912
4.	MAY E. SMALL, Principal, 12 Day Street, Cambridge	\$950	1900
4.	Stella M. Holland, 46 Chester Street	800	1903
3.	Maude C. Valentine, 1098 Broadway	800	1901
3.	Mrs. Jane M. Taaffe, 159 Morrison Avenue	800	1888
2.	Katherine E. Hourahan, 27 Hall Avenue	800	1892
2, 1.	Clara G. Hegan, 100 School Street	800	1897
1.	Martha A. Jencks, 96 Orchard Street	800	1898
1.	Mrs. Stella Hadley, 11 Greene Street	600	1913
EVENING SCHOOL PRINCIPALS.			
	HARRY L. JONES, High	\$6.00	
	JOHN S. EMERSON, Bell	4.00	
	CHARLES E. BRAINARD, Highland	3.00	
SPECIAL TEACHERS.			
MUSIC.			
13-7.	S. Henry Hadley, 46 Pearl Street	\$1,700	1868
6-1.	Charlotte D. Lawton, 11 East Newton Street, Boston	1,000	1898
DRAWING.			
9-1.	Clara M. Gale, 5 Westwood Road	1,100	1911
SEWING.			
	Mary H. Brown, Supervisor, 11 Everett Street, Cambridge . .	*200	1913
8-5.	Mary L. Boyd, 74 Heath Street	800	1888
8-5.	Emma J. Ellis, Kenneson Road	800	1900
8-5.	Charlotte Holmes, 49 Laurel Street	800	1913
8-5.	Jennie Williston, 3 Monmouth Street	500	1913
PENMANSHIP.			
9-1.	William A. Whitehouse, 32 Central Road	1,500	1895
MANUAL TRAINING.			
	Harry L. Jones, Supervisor, 137 Powder House Boulevard . .	†300	1911
9, 8.	Kathinka Fessman, 68 Warrenton Street, Boston	850	1912
9, 8.	E. Christabel Ruggles, 268 Humboldt Avenue, Roxbury . . .	800	1912
9, 8.	Eva G. Hardy, 64 Avon Street	850	1912
ATYPICAL.			
	Mary A. Holt, 72 Boston Street	825	1910
	Bertha M. Martindale, 21 Highland Avenue	825	1913

*Additional to salary as Director of Girls' Vocational School,

†Additional to salary as High School sub-master.

TABLE 30.—OFFICERS, ETC., IN SERVICE JANUARY, 1914.

NAME AND ADDRESS.	Salary.
SUPERINTENDENT AND SECRETARY.	
Charles S. Clark, 82 Munroe Street	\$3,500
CLERKS.	
Justin W. Lovett, 29 Cambria Street	1,300
Mary A. Clark, 42 Highland Avenue	800
Mildred A. Merrill, 26 Cambria Street	650
ATTENDANCE OFFICER.	
Benjamin R. Jones, 25 Loring Street	1,350

TABLE 31.—SCHOOL JANITORS, JANUARY, 1914.

School.	Name.	Residence.	Weekly Salary.
High School, S	John H. Kelley	7 Madison St.	\$25.00
High School, assistant	Frederick O. French	28 Marshall St.	21.00
High School, assistant	Charles A. Southwick	18 Cleveland St.	16.00
High School, assistant	Lewis G. Keen	56 Prescott St.	20.00
High School, assistant	Arthur W. Phillips	87 School St.	14.00
High School, assistant	Albert H. Damm	65 School St.	14.00
High School, assistant	Michael A. Mullin	16 Bowdoin St.	17.00
High School, fireman	Charles Hoyt	18 Trull St.	16.00
Prescott, S, 12	George A. McGunnigle	88 Glen St.	17.00
Hanscom, S, 10	Charles F. Rose	15 Brastow Ave.	14.00
Boys' Vocational, F, 4	George H. Clapp	35-A Franklin St.	12.00
Bennett, S, 12	Michael Mullaney	467 Somerville Ave.	17.00
Baxter, S, 6	Israel Winterbottom	2 Bolton St.	14.00
Knapp, S, 12	John H. Lane	5-A Belmont St.	17.00
Perry, S, 6	Henry C. Bradford	72 Boston St.	14.00
Pope, S, 12	John J. Kilty	662 Somerville Ave.	17.00
Bell, S, 12	William Meskill	53 Partridge Ave.	17.00
Cummings, F, 4	George W. Libby	215 Pearl St.	12.00
Edgerly, S, 12	Charles P. Horton	22 Everett Ave.	17.00
Glines, S, 14	Roy C. Burckes	249 School St.	18.25
Forster, S, 18	George W. Coombs	30 Tufts St.	18.00
Forster, assistant	Jerry M. Brennan	9-A Glenwood Rd.	14.00
Bingham, S, 16	John F. O'Brien	347 Lowell St.	21.00
Carr, S, 16	James W. Rich	206 Highland Ave.	23.00
Morse, F, 12	John W. Cremen	69 Oxford St.	17.00
Proctor, S, 8	Charles T. McGrath	320 Lowell St.	14.00
Durell, S, 4	Ellsworth C. Lundgren	50 Harrison St.	12.00
Burns, S, 8	Charles Gallaway	160 Hudson St.	13.50
Brown, S, 10	O. M. Pote	23 Howe St.	15.00
Highland, S, 12	E. Parker Cook	398 Highland Ave.	16.00
Hodgkins, S, 14	John Shea	406 Highland Ave.	17.00
Cutler, S, 12	Daniel Campbell	85 Lexington Ave.	20.00
Lowe, S, 8	John F. Richardson	190 Morrison Ave.	15.00
Girls' Vocational	George H. Griffin	25 Virginia St.	15.00

Buildings heated by steam are marked "S," by furnace "F." The numbers show the number of rooms.

The high school is heated from the Central heating plant.

PUBLIC LIBRARY.

BOARD OF TRUSTEES AND OFFICERS.

Trustees.

THOMAS M. DURELL, M. D.	GEORGE WHITING.
J. FRANK WELLINGTON.	WILLIAM H. DOLBEN.
FREDERICK W. PARKER.	JOHN M. WOODS.
WILLIAM L. BARBER.	W. DUDLEY YATES.
CHARLES L. NOYES, D. D.	

Officers.

THOMAS M. DURELL, M. D.	President
J. FRANK WELLINGTON	Vice-President
DREW B. HALL	Secretary and Librarian

Committees.

Administration—Wellington, Parker, Noyes; the President.
Books and Catalogues—Barber, Dolben, Yates; the President.
Buildings and Grounds—Whiting, Woods, the President.

REPORT OF THE TRUSTEES.

To the Honorable, the Mayor, and the Board of Aldermen of
the City of Somerville:—

Gentlemen,—The forty-first annual report of the trustees of the public library is herewith respectfully submitted accompanied by the report of the librarian, condensed tables of statistics of operation and some account of the new building with the addresses at the dedication on December 17.

Very respectfully,

THOS. M. DURELL,

President.

Adopted by the Board of Trustees
January 27, 1914,

THE PUBLIC LIBRARY.

Central Building, Highland Avenue.

Week days, holidays excepted, 9 a. m. to 9 p. m. Sundays, reading and reference only, 3 to 6 p. m. Children's room, school days, 3 to 8 p. m.; other week days, 9 a. m. to 8 p. m.; Sundays, 3 to 6 p. m.

Branches.

Week days only, holidays excepted.

WEST SOMERVILLE, 40 College Avenue—1 to 9 p. m.

Saturday, 9 a. m. to 1 p. m., also.

EAST SOMERVILLE, 153 Perkins Street, 2 to 9 p. m.

UNION SQUARE, Washington Street and Bonner Avenue—2 to 9 p. m.; after 6 p. m. children under fourteen admitted only for exchange of books.

SOUTH AGENCY, 518 Somerville Avenue.

THE STAFF.

DREW B. HALL, Librarian.

NELLIE M. WHIPPLE, Assistant Librarian.

EXECUTIVE AND DEPARTMENT HEADS.

Lucy B. Crain, Supervisor of Children's and School work.

Edith B. Hayes, Branch Librarian, East Somerville.

Esther M. Mayhew, Cataloguer.

Gertrude F. Root, in charge, West Somerville Branch.

Lucinda F. Spofford, Branch Librarian, Union Square.

Mabel E. Bunker, Assistant Branch Librarian, West Somerville.

Bessie L. Duddy, Stenographer and Bookkeeper.

Marion Lovis, High School Librarian.

Anna L. Stone, Shelf List Curator.

Mabel Williams, Reference Librarian.

Mary S. Woodman, Classifier.

ON SPECIAL APPOINTMENTS.

Frances Rathbone Coe, in charge of extension of catalogue.

Mary Morgan, Typewriter.

Gordon Hall, Stack.

SENIOR ASSISTANTS.

Bessie S. Cobb, West Somerville. Ethel M. Nute, Union Square.

Annise B. Kane, Cataloguing.

Ruby G. White, East Somerville.

A. Myrtle Merrill, Cataloguing.

JUNIOR ASSISTANTS.

Susan W. Curtis, children.

Myrtle Nicholson.

Juliana Donovan.

A. Lisette Parker.

Ruth S. Fales.

Anna B. Truesdale.

Zoe E. Nelson.

Edna C. Woodbury.

MESSENGERS.

Mae L. Gormley Hugh E. Maguire.
 Joseph K. Kelleher.

HIGH SCHOOL ATTENDANTS AND PAGES ON PART TIME.

Grace Boothby.	Walter Dickson.
Marion Hunt.	William J. Hession.
Bertha C. Mellett.	Albert Howard, Jr.
Alice M. L. Patterson.	Ronald Moore.
Agnes Riley.	Harold Ruggles.
Beatrice Wilson.	

JANITORS.

Under the Commissioner of Public Buildings.

Charles A. Southwick, Central.
Thomas F. O'Day, West Somerville Branch.
George A. McGunnigle, East Somerville Branch.
Thomas Dame, Union Square Branch.

REPORT OF THE LIBRARIAN.

To the Trustees of the Public Library of the City of Somerville:—

Gentlemen,—The forty-first annual report of the librarian is herewith submitted, being that for the year 1913.

New Building.

The most noticeable event of the year has been the completion and the dedication, on December 17, of the new building. It is agreed by all to be beautiful, dignified and unusually well adapted to the comfort and quick service of readers and to the convenience of the library staff and economical in administration. Its Book Room for adults can accommodate one hundred and forty readers at tables and has space for over 40,000 volumes on its shelves, which are arranged on the alcove plan, giving fine light and a considerable amount of quiet seclusion to the person interested in any particular subject.

The Children's Room has space for seventy-five seats and about 7,000 volumes on open shelves and is very light and attractive. Both these rooms have direct access without the intervention of corridors to the Storage Stack, which has space for upwards of 140,000 volumes on over two and a quarter miles of shelving. The moving of the library is now rapidly under way and everything will be in place for the opening the first week of January. I do not look for a great increase in the home use of fiction, which has always been the most easily accessible class of books; but there can hardly fail to be a doubling or trebling of the reference work and a very considerable increase in the use of attractive non-fiction such as travel, biography, etc., which for the first time will be easily accessible for the examination and browsing which lead to home use and the "fitting of the right book to the right person."

At this time of moving also there is being made the separation of the library into two great groups, those of continual interest and use, and those of infrequent use and of little account to the great majority of our readers. This means a careful consideration of the community's needs and of the intrinsic value of the books of the library. For a year and a half especial attention has been given to this revision of the catalogue and selection of 35,000 volumes out of the 90,000 on hand; the amount and quality of this special work accomplished with only one special reviser added to the regular staff has been remarkable and accomplished only by every member of the force working at high pressure and in many cases over time.

Branches.

The three branches have continued to serve their communities most effectively. The West Somerville Branch, which cele-



THE NEW SOMERVILLE PUBLIC LIBRARY

brates its fifth birthday next May, is for its size of building and book collection one of the most largely used in New England, but so far it has not been possible to offer the opportunities for quiet reading and reference work which you desire and which the community is more and more demanding because of the presence of the children in what is really the adult room. There is no children's attendant, as there is no children's room separate, and practically no attention can be given to the children and their reading; as a result the large number of children who come into the branch fail to get what they desire and are an annoyance to the adults and a still larger number of children in the district do not use the building at all. The need of a children's room, which could be very easily provided with a separate entrance in the basement, is perhaps most clearly shown by the following comparison; although West Somerville is a much larger district than the fields of the East Somerville and Union Square branches and the proportion of reading children probably higher, still in West Somerville the percentage of the total circulation taken by children was twenty-three per cent. as against thirty-three per cent. at East Somerville and forty-five per cent. at Union Square.

Two years ago the first of February the East Somerville Branch was opened and in its small room is doing a very large work. A month later the Union Square Branch was opened in a room twice as large and pleasant in the old Prospect Hill schoolhouse; its success while not so immediate has been even greater perhaps. At both of these buildings the crying need again, which their constituents are more and more demanding, is children's rooms. The building at East Somerville contains no space that can be used, but at Union Square there is space which could very economically be made available. I am firmly convinced that nowhere in the city's activities would a few hundreds (not thousands) of dollars do so much for the pleasure and the intellectual and moral well being and good order of the community, as spent in providing children's rooms at West Somerville and Union Square. At East Somerville the need is as great but the expense much larger.

Accessions of Books.

Eight thousand seven hundred sixty-one volumes were added during the year and 7,227 worn out and withdrawn; as it requires about as much time to "withdraw" a book and check all the records as to add a volume, the handling of these additions and subtractions is practically equivalent to the cataloguing of their sum of 16,000 volumes. This means that beside the work of revision and selection already referred to a tremendous number of operations on new books has been accomplished by the cataloguing force; a number running up into the

hundreds of thousands of clearly distinguishable acts. The total number of volumes on our records stands at 109,236.

Of the 8,761 volumes added, the greatest number in one class was 4,000 fiction, a subject setting forth human nature, activities and modes of life and attractive to and giving refreshment and width of horizon and experience to all sorts of readers; next were 750 volumes to travel and history, over 500 volumes to useful arts, 500 volumes of literature, 350 bound periodicals, 325 fine arts, 235 biography, 220 of science, 150 religion, 135 music, 100 philosophy and so on.

Borrowers.

The re-registration of borrowers together with the registration of new persons has continued quietly and smoothly. Three thousand six hundred and sixty-two names have been added to our records and 7,513 former readers have been re-registered, a total of 11,175 names and addresses verified and carefully distinguished by exact data. Some thousands of cards on the old registration still in use will gradually be retired during the coming year. It appears that between 16,000 and 18,000 different citizens have drawn books during the year for use at home, not to mention other thousands who use the various buildings for the reading of periodicals and newspapers or for reference questions or who by telephone apply for all sorts of information. The library is reaching the citizens more and more each year and they are more and more expecting and demanding what it alone can give. The library staff realizes from its day to day contact with these tens of thousands of citizens what are these needs and demands, more fully than can any individual or other body of city officials or employees. The citizens want good books and assistance in their use and are willing to support the institution that can furnish them freely and economically. The library offers freely everything it has and it does so economically, for how else can be had for one cent a week, the per capita cost of the library system, all the library offers so freely? That the citizens demand library facilities and the economies effected by the co-operative principle of the public library is shown by the fact that all of the branches have resulted from local demands, and movements initiated and carried to completion by local organizations.

Home Use.

Last year I predicted a circulation of 100,000 from the two new branches; it has proved to be over 125,000. At Central there has been a decrease due to the closing of the building the last two weeks and especially to the fact that the children's room was closed the middle of June to make way for a new

municipal heating plant, and that the major portion of the school library books have for the same reason been unavailable during the fall.

General Administration.

The general administration has been carried on I think with increasing efficiency and better service. All members of the staff have worked to the best of their ability and certainly the limit of strength; certain reassignments have proved wise and the general personnel was never superior.

Mrs. Spofford and Misses Hayes, Cobb and Curtis have followed courses of Simmons College and the University Extension Bureau.

The library has been represented by the librarian, or by one or more other members of the staff who have taken more or less distinctive parts at four meetings of librarians in this state and at the national meeting in June at Kaaterskill. And your board has invited the Massachusetts Library Club to meet here on January 22 next.

The New York State Library School asked permission, which was granted, for two of its students to spend the month of March here at their own expense in practice work, and in April some twenty-five students and the head of the Pratt Institute Library School from Brooklyn spent the day investigating the several buildings and our processes.

At the annual meeting of the Massachusetts Library Club in Williamstown the librarian was elected president.

The school committee of the city, as a result of suggestions made a year and a half ago and more completely worked out during the last two months, has elected to its teaching force as high school librarian a member of the public library staff, who will devote her attention to the interests of the high school teachers and pupils, spending half her time in the school and the other half in the library reference rooms; her salary to be divided between the two departments.

To the members of the staff and their willing co-operation and earnest endeavor are due the accomplishments of the year and to them are indebted the librarian, the trustees and the citizens.

To you, gentlemen, who as trustees have cheerfully given unrewarded, and largely unappreciated, your time and care, the staff are under great obligations and the citizens, in larger measure than they know, for the guiding wisdom which during this year as during the forty years past has worked to the development of a public library second to none in similar circumstances.

Very respectfully,

DREW B. HALL,

Librarian.

January 2, 1914.

THE PUBLIC LIBRARY OF THE CITY OF SOMERVILLE.

APPENDIX A.

Statistical Report for 1913.

	Central.	West.	East.	Union.	Total.
Volumes in library, January 1, 1913	95,621				107,702
Volumes added	5,237	10,074	811	1,196	8,761
Volumes withdrawn	5,399		1,004	947	7,227
			258		
Volumes gained	162 (lost)	324	746	626	
Total volumes in library	95,459	10,398	1,557	1,822	109,236
Volumes circulated—Adult	147,782	90,741	41,303	35,205	315,031
Volumes circulated—Juvenile	16,184	27,236	20,371	28,795	92,586
Total volumes circulated	163,966	117,977	61,674	64,000	407,617
Estimated circulation on "old" basis of deposits of 9,927 volumes					148,317
Grand total of circulation					555,934
Reader's cards, new	1,224	1,049	579	810	3,662
Reader's cards, re-registered	3,152	2,370	1,071	920	7,513
Total registrations	4,376	3,419	1,650	1,730	11,175
Vacation books issued	1,782	785	279	341	3,187
Volumes delivered through Interchange	3,147 (South)	1,490	1,713	1,487	7,837

APPENDIX B.
Financial Statement, 1913.

	Central.	West.	East.	Union.	Total.
Books	\$4,655 97	\$1,677 26	\$675 65	\$747 19	\$7,756 07
Music	147 42	25 36	.....	.....	172 78
1 Periodicals	936 72	340 30	14 25	19 50	1,310 77
Totals	\$5,740 11	\$2,042 92	\$689 90	\$766 69	\$9,239 62
1 Binding	1,189 13	315 40	107 09	29 74	1,641 36
1 Printing and Stationery	377 78				2 \$10,880 98
Services	15,166 39	3,469 34	1,597 37	1,589 34	377 78
Express, Postage and Telephone	372 32	78 57	48 74	49 08	21,822 44
Sundries	2,160 07	93 67	56 35	64 20	548 71
Totals	\$25,005 80	\$5,999 90	\$2,499 45	\$2,499 05	2,374 29
					\$36,004 20
1. Parts or all of these items under the branches were paid by Central.					
2. And in addition \$933 36 for books from Funds; making total for printed matter					\$11,814 34
TRUST FUNDS: INTEREST FOR BOOKS.					
\$783 21		\$5.85	\$67 68	\$76 62	\$933 36

APPENDIX C.**FACTS ABOUT SOMERVILLE.**

Residential suburb, north of and adjoining Boston, east of Cambridge (Harvard Square one mile), and "twenty minutes from Park Street."

Area, 4.2 square miles.

Assessed valuation, 1913, \$71,906, 464.

Funded debt, 1914. \$1,674,000.

Public property, \$5,700,000.

Population, 80,000.

Pupils, in school, 15,000; school buildings, 30.

Central library building on Central Hill Park.

West Somerville Branch, $1\frac{1}{2}$ miles from Central; East Somerville Branch, $\frac{3}{4}$ miles, and Union Square Branch, $\frac{3}{4}$ miles from Central. The latter two are $\frac{3}{4}$ miles apart also.



THE BOOK ROOM

THE
PUBLIC LIBRARY OF THE CITY OF SOMERVILLE

BRIEF HISTORY OF THE NEW BUILDING
AND
THE ADDRESSES AT ITS DEDICATION

On June 27, 1911, in regular meeting, the Trustees, the lack of facilities for the citizens in the old building having been called to their previous consideration by the Librarian in personal interviews, agreed to an effort to secure a new building.

During the fall various letters were exchanged with the representatives of Mr. Carnegie, setting forth the condition of the library.

On December 21, a letter was received suggesting failure in making clear to Mr. Carnegie the crowded and unsafe condition of the old building.

On December 26 the librarian suggested in regular meeting that a report on the situation by a skilled library architect would help in making clear the matter and recommended, as such a specialist, the architect of the beautiful and convenient City Library of Springfield, Mr. Edward L. Tilton. It was agreed that such a report be obtained and arrangements were shortly completed for an inspection of the old building by Mr. Tilton on January 3, 1912.

On January 1, 1912, a letter was received expressing Mr. Carnegie's regrets that the information at hand was not satisfactory and that he did not see his way to the making of a grant.

This refusal seemed conclusive; but the arrangements for the architect's inspection were not countermanded, in the hope that his technical report might be of some avail.

On January 22, the report was forwarded to New York, accompanied by a statistical statement signed by President Durell of the trustees and by Mayor Burns, and sworn to by the Librarian; supplemented on January 29 by a further statement.

On February 8, a reply was received that "Mr. Carnegie notes that the city is willing to take over the present library for general offices and turn the cost of the same, \$45,000, for behoof of new building. Mr. Carnegie will be glad to add \$80,000 to such \$45,000 for a library building, complete and ready to occupy. The city must pledge maintenance at a minimum of ten per cent. annually and must also provide a suitable site and make the plans such as Mr. Carnegie will approve."

That evening the matter was laid before the Board of Aldermen.

On March 14, the Board of Aldermen, having granted a hearing to the Board of Trustees, and having investigated library buildings, passed the building order.

On March 21, Mayor Burns appointed an advisory committee of nine, city officials, trustees and citizens, which on the 27th met and agreed with his Honor the Mayor in the appointment of Mr. Tilton as architect.

During the next three months plans were presented, and considered and matured. On July 12, 1912, the contract for the construction of the building was awarded to the Kennedy & Peterson Construction Company of Boston.

Ground was broken in September; progress has been steady during the intervening fifteen months and on today, December 17, the building is thrown open to the public to be dedicated by their inspection and acceptance. The brief addresses at half past eight in the evening follow.

The building is Renaissance in style, is 123 x 75 feet in size, has two stories with a half-floor cellar in the rear and is constructed of Persian gray brick with terra cotta trimmings and green tile roof. It is beautiful in simple dignity, economical in construction, and efficient in operation.

The storage stack of two levels containing 140,000 volumes has been placed in the centre entirely dependent upon artificial light, and readers have been placed between the stack and the daylight next the windows. This reverses the type of plan with the reading room in the centre and the books outside, of which the Library of Congress is an example.

The adults, the largest group of readers, are given the entire main floor extending over the storage stack. This room contains wooden cases upon the alcove plan for 45,000 volumes and seats for 140 readers and has light on all four sides and overhead. The children occupy one end of the ground floor with direct access to the storage stack. Their room shelves 7,000 volumes and seats seventy-five. The cataloguing room is at the other end of the storage stack; at the rear are rooms for staff convenience and at the right of the entrance a small lecture hall seating eighty. In the cellar are the boiler, fan, janitor, and work rooms.

Artificial light is by electricity from overhead; indirect on the ground floor, direct in the Book Room, whose height, some twenty-three to thirty feet, raises the lamps above the line of vision. Tables and book cases are all movable, allowing the re-arrangement of space as desired. There is an electric elevator with five stops reaching all floors and a very complete equipment of telephone and other appliances for comfortable, rapid work.

THE ADDRESSES

BY

Mayor Burns, Commissioner Littlefield, President Durell, Librarian Hall, Superintendent Clark, Dr. Noyes, Trustee.

Mayor Burns presided and made the opening address:—

"Fellow Citizens: It is seldom that any municipality has the privilege of dedicating such a beautiful public building as we are dedicating here tonight. This building is erected for the use of the people, not only of today, but of succeeding generations, and Somerville will not have to consider the matter of a central library building for many years to come. Such a far-sighted policy should govern the erection of any municipal building.

"It became evident some time ago that, on account of our very large increase in population, our library building was too small for carrying on the work efficiently and economically. The question of enlarging the building was taken up, but, after going over this matter carefully, it did not seem advisable. Then it became known to the trustees of our public library that Andrew Carnegie, one of the world's greatest benefactors, would be willing to contribute a sum of money toward the erection of a new public library building in our city. Mr. Carnegie had already given the city the fine West Somerville branch library building, and it had not been expected that he would further favor us with a still larger gift toward a central library building. That he was willing to do this shows his deep interest in the welfare of such a community of readers as ours—that commendable interest which he has demonstrated again and again by his many gifts of library buildings to cities and towns throughout our beloved country. Somerville is grateful indeed to her benefactor.

"The question was gone into with the Board of Aldermen of the year 1912: only \$45,000 was appropriated by the city, and Mr. Carnegie gave \$80,000, making a total of \$125,000. The building has been constructed and completed within that sum and as you see it here tonight.

"Edward L. Tilton, the architect, has performed his work well, and he should receive the congratulations of all the people. The contractors, the Kennedy & Peterson Construction Company, have carried out the contract to the minutest detail, and their work has been a credit, not only to them, but to the city.

"The Mayor has had the assistance of the commissioner of public buildings, the board of trustees of the public library, and an advisory committee, and I desire to return my thanks to all who have in any way assisted in the erection of this beautiful building.

"It is erected on a beautiful and historic spot, and we—all who have been vitally interested in its construction—believe it is as finely appointed a building as may be found in the com-

monwealth. We have a beautiful room set apart for the children where they can assemble in large numbers and enjoy the privileges which have been accorded to them. We have a small hall in the building where the Somerville Historical Society and other similar organizations may assemble for lectures and similar purposes.

“‘The public library is the people’s university,’ one of the best assets that any community can have—and I take this opportunity as Mayor of our city to congratulate the people of Somerville on the erection and completion of this beautiful, commodious and well-appointed structure.”

Building Commissioner Littlefield said:—

“On July 12, 1912, the contract was awarded for the construction of this building, which now completed speaks for itself. I believe this city possesses one of the best library buildings in the commonwealth. After months of patient toil the different building trades have completed the work which it has been my duty to supervise. I have had the assistance of the Mayor, members of the city government, Mr. Tilton, the architect, and the board of library trustees in securing for the city full value for the money expended, and I wish to thank them all. My duty now is to surrender the building to the board of library trustees through its honored president, Dr. Durell, and to him I present the keys to this building which is a veritable modern temple of literature.”

Dr. Durell accepted the keys and spoke as follows on “What the Trustees Hope to Give the Citizens”:—

“Mr. Commissioner and Mr. Mayor: In receiving these keys, we, the trustees of the public library, accept in behalf of all the citizens, control and management of this building, from you who have erected, completed and tonight dedicated it.

“The trustees wish to express to Andrew Carnegie our heartfelt thanks for his generous gift. To Mayor Burns the city owes a deep debt of gratitude for his unfailing interest from the very inception of the idea of a new library building. To the architect, Edward L. Tilton, it is indebted not only for the beauty of the structure but also for the warm, personal interest which he has taken in the project from the start. To Commissioner Littlefield hearty thanks are rendered for his expert suggestions and supervision.

“The building itself is not only a beautiful and ornamental structure, but also one of the most complete and economical working libraries in existence, most carefully planned by the librarian, so that we ask only the same appropriation for 1914 as was required this year in the old building.

“From tonight we, the trustees and the staff, accept the duty and the pleasure of making it the centre of books and

"It is said that Americans are interested about two-thirds in business and one-third in love. It is certainly true, the average business man, when he comes home, tired from the strain of the day, must relax and be amused. And just here comes the function of fiction—if literature is an art and libraries are to be reservoirs of literature, certainly libraries could not be complete without art's most human appeal—amusement.

"Great good has been done by writers of fiction—Dickens remodeled the work houses; Charles Reade changed the whole method of caring for the insane; Harriet Beecher Stowe did more toward freeing the slaves with 'Uncle Tom's Cabin' than all the great speeches in Congress; and of late Upton Sinclair, with his horrible book, 'The Jungle,' has done more for clean, wholesome food than Dr. Wiley and all the medical experts.

"Great care is and should be taken in the selection of books, especially for the young, for good habits in reading if acquired early are apt to be persistent; and we are giving especial attention to the development of children's work, both in the schools and in the several library buildings, making it a strong, systematically managed department.

"At the building of King Solomon's temple we are told that the work came to a stop for the want of a keystone to a certain arch, which none had orders to furnish. Upon inquiry it was found that such a stone had been presented, but the overseers, not knowing its purpose, agreed to throw it over among the rubbish of the temple. Now the reason of this almost fatal mistake was ignorance on the part of the overseers.

"This temple, so beautiful in all its proportions, has been erected to combat ignorance. It stands here as a monument of light and enlightenment.

"We trust that it will fulfill its promise and that it may prove, not a storehouse of books, but a centre for the diffusion of knowledge through this good city of ours."

Drew Bert Hall, Somerville's librarian, spoke as follows on "The Aims of the Library of Today":—

"The progress of a city depends upon the development of the bodies, of the minds and of the spirits of its citizens. Your bodies of muscle and brain must have wise care and harmless recreation. Your minds must be educated in all the wisdom built up of the successes and failures of your forerunners. And your spirits, they are the sacred fires whose bright or dull burnings put power or weakness into the machinery of your bodies and minds.

"Where have men found comfort for their bodies, and knowledge for their minds, and inspiration for their spirits, more than in the records of other men's successes and failures;

which are books? The greatest force in the world is the inspiration men receive from a book, the Book of Books.

"Caesar and Napoleon gained knowledge for the activities of war and government from the books of law and history of their days. And Abraham Lincoln read Artemus Ward's humorous fiction just before submitting to his cabinet officers the Proclamation of Emancipation.

"So long has this power of books been recognized and so widely is it spread that today all things under the heavens, or in the sea, or on the earth are dealt with in printed pages. To succeed every man must read. Yet unaided he knows not which of the volumes before him is best for his purpose; neither is he able to own privately all those he sometime must read. To meet this need for thousands of books on hundreds of subjects, and for guidance in their choice and use, there have been created the co-operative libraries of the public.

"They have grown like green bay trees until their leaves offer shade to the people of all the cities.

"Yet this service, great as it is, is but a beginning of what shall be. For there is not a child or a young man, a housewife or a merchant, a laborer or a banker, a mechanic or a lady in this land tonight who does not need something to be found in good books; whether it be comfort for their sorrows of the day, or of knowledge for their struggles of the morrow, or of inspiration for their visions of the future.

"Great as is the service offered, still greater is the economy effected. For the cost of its maintenance, the public library system of this city yearly renders service which if purchased individually would cost its citizens half a million dollars. The co-operative principle of a public library takes the dollars of its appropriation and multiplies them, some ten fold, some twenty fold, and some thirty fold, as can no other institution. For it alone deals with what may be consumed and consumed again, what may be read and re-read, and be still able to give each new reader whatever part of itself he can understand and take unto himself, until the ink is faded and the page worn thin.

"And the common people use their library gladly, place 35,000 of their names on its register, and support it willingly, for it is all the inhabitants, not merely the payers of taxes, who support a city.

"That they might have the service of books nearer their homes the people to the west erected a branch and call upon it so largely that only thirteen cities in Massachusetts use their entire library systems more than is this one branch building whose central supply is from today in this structure. And then the people toward the east and toward Union Square found more and more good in books; and that this good might come

nearer their homes also, they too established other branches. And each is a refuge and tower of strength to its people.

"To give this good service of books, there are required three things—buildings, books and actuating force.

"Buildings suitable for economical and efficient work, and since libraries house the minds and the spirits of the great, and offer them continually to citizens both young and old, buildings beautiful to uplift the living and honor the dead!

"Books; of the making of them there is no end; books great and little, books useful and useless, books never dying and books never alive! Inaccurate books and out-of-date editions are worse than none; duplication of matter already owned in one volume is confusing and wasteful. So the choosing of the best books and their skilful use have become a profession, and their classification and cataloguing an exact science.

"If the building be the body, and the books be the mind, there must be the third part, the heart and the spirit. This is the library staff of sympathetic, forceful and well educated persons breathing warmth into the body of cold brick, and life into the mind of quiescent books; ready at all times to serve the city, 'regarding, not chiefly its passing cravings, but those things which alone can finally satisfy it.'

"All these elements in good measure lie within your public library, and aim always to bear still more useful and intimate parts in the progress of the city and in the development of your individual lives.

"'Culture is of the individual, civilization is of the community. No city is truly civilized until it maintains for the common welfare from the common wealth of the city all that is essential to the common good, these things of the higher life, especially included. A public library rightly regarded is the civic centre of a community. In it more than anywhere else, all citizens meet and have a common social home'; where every child or youth, or old man may receive from the personalities of the staff some influence toward refinement and culture and garner from the pages of the books some comfort or knowledge, or inspiration for the day's work."

"The Public Library as a Public Educator" was the theme of Superintendent Charles S. Clark, who spoke as follows:—

"Two ideas are here expressed, the one as old as the human race, the other the offspring of the most recent times.

"All through the ages man has secured education by means of processes easily reducible to two general terms, self-activity and instruction. Self-activity has developed his spiritual, intellectual, and physical powers; instruction has supplemented his natural powers by furnishing them the tools or agencies of improvement which others have invented. In the early days of the race when man was little more than an animal, instruction was

limited, being confined to the experiences communicated directly from one to another. As the race grew older, tradition was added to experience and later still information recorded through signs and symbols was drawn upon in the education of man. When writing was invented knowledge was put in permanent form, available for all who could make use of written documents. During all these ages man had been rising in the scale of civilization through the exercise and improvement of his natural powers and through the influence of instruction which was constantly increasing in importance because of the increasing dissemination of knowledge.

"But it was not until the intervention of the printing press that instruction was freed from the shackles of mechanical difficulties. From that time until the present day the volume of recorded information has increased until now books, the treasure-houses of information, are as numberless as the sands of the seashore. What today is education? Is it not for any individual that development of his physical, intellectual and spiritual power which will best fit him for his physical and social environment? Such a definition comprehends all of the upward struggles of the soul of any individual from his earliest infancy until he passes from this life into the great unknown.

"By what means shall education be secured today? Only by means of self-activity and instruction. The schools provide instruction, but the days of the school are limited as compared with the days of the life of the individual. Beyond the school where may instruction be found? Today the answer is not far to seek. Thanks to the multiplication of printing presses the experiences and knowledge of the race are now recorded in books and are available for instruction of all who will make use of them. What a wonderful change! The horizon of any individual is no longer the horizon of his own limited vicinity but may become a world horizon. The possibilities of instruction are now as broad as the life and the accumulated knowledge of the race.

"How then shall instruction be made available to all who must seek it in books which it is beyond their power to own? Modern times has furnished the answer to this question. The public library is the last great gift of civilization to public education. Within the walls of the public library are gathered the intellectual riches of the world. The public library performs the mission of offering universal instruction; it supplements the work of teachers and schools. The learner, in whatever walk of life, is afforded access to those means of education which lie outside of his native powers. This boon, formerly denied to mankind, is now freely offered to all by the public library. It is impossible to overestimate the value of this offering. As an agent in public education, the public library is today entitled

to take its place at the side of those other great agents in the elevation of mankind, the home, the church, and the school. Within a lifetime the whole problem of public education has thus been changed by the rise of the public library. Its influence is as beneficent as it is universal."

Dr. Charles L. Noyes closed the programme with a brilliant and scholarly address on "The Public Library and Life." He spoke as follows:—

"What does it mean that a city should build, equip, man and maintain a library like this? Understand that, and you explain the meaning of our civic life today. A modern library is a mirror held up to modern life in its latest phase. Approve it you cannot unless you believe in the movement of humanity in which we are a part. Condemn it and you indict civilization, you stand against the stream of our life as a people today. For what are the people doing, and meaning ever more to do? Day before yesterday they were asserting their right to rule, a democracy of power: yesterday they were, as they are still, claiming privilege,—every class, condition, sex for itself—a democracy of opportunity; today the people are combining in nations and cities to give to all citizens, all the good that life has to bring—a democracy of service. 'The best is not too good for the common people,' is our creed and our inspiration. The richest and the fairest, in health and comfort and happiness and beauty and intelligence, is to be the common heritage of all, so far as we can make it, and they will merit it. The symbol of that civic zeal and ideal is before us in this noble library. Standing in the present and pointing to the future—a vivid and eloquent expression in the hard reality of brick and stone of the ideal to which we are moving.

"A modern city library is, I think, the finest and clearest interpretation of the spirit of the times. It shows the city ministering to its whole citizenship, at the highest range of human life in the things of richest worth. It is, indeed, but one organ in the complex and complete municipal ministry. All kindred institutions—hospitals, schools, parks, play and pleasure grounds—are but the people acting collectively for the benefit and betterment of all. But I hope it will seem no partiality in me to say that the library serves in things which are the most indispensable, and of the highest rank. To heal and develop the body is a primary task, but surely for a human being a subordinate one. The library serves and perfects him in all that makes life worth living as a creature of reason, feeling, imagination, conscience and freedom.

"A public library shows humanity educating itself for human life—improving its efficiency, perfecting its nature, enriching its capacities and resources. We have had a glimpse, in a previous address, of the library as fellow servant with the pub-

lic schools, but beyond that it is itself the school for large numbers, who failed of schooling, or ended it too soon. For all of us it takes up education where school or even college must leave it. All our learning in these institutions has its best value as a preparation for after study and training. The library is a post-graduate university for all men, and the universal vocation school, enabling even the mechanic to be a master in his craft.

"But the supreme task for the democracy of the future is to educate itself for its work as a democracy. Popular government must be intelligent. A democracy cannot survive, still less prosper without libraries or their equivalent. A monarchy might. It is enough there that one man or a few should be wise, and relatively small wisdom is needed for its simple and stationary existence. But the problems of life and government under popular rule are many and multiplying, new every morning and fresh every evening, complicated and complex to the last degree, and we the people must solve them. Mere zeal and good will have not enabled us to dispose of such comparatively simple issues as temperance, charity, slavery. What shall we do when we deal with the more debated and difficult subjects, such as commission government, referendums, public ownership, trust control, eugenics, and all the reforms which are thrust upon us, to adopt offhand? One thing is sure, it will not do, no matter who summons us, to leap forward with our eyes shut. We must look ahead with the help of reason and argument, backward over the dearly bought experience of the race, and outward for all the light and leading of fellow experimenters in other lands. In some measure all of us and above all our guides and leaders must sit at the feet of thinkers and experts, and study the experience and wisdom of the generations behind, and the wide world about us; and all these complete, classified, clarified, with trained and willing assistants, are to be found, and found only in our libraries.

"But the spirit of the library turns on us sad eyes of rebuke when we dwell too long on her function as educator of workers and voters. She first and last offers to us, at their best, the things for which we work and live. She gives us books gathered from all lands and ages, selected, adapted to mood and taste and capacity, and books are not only or chiefly tools of trade, but the nourishment and tonic and solace of the soul. Come to this palace of reading, she calls, accept the freedom of its tables and shelves, command the best attendance and advice we can give, and spend your hour or your evening here in the company of the brightest minds, the noblest characters, the bravest workers of your kind; and go hence, as after a mental and moral bath, and a feast at a full table, not only better fitted for your calling as worker and citizen, but a wiser, larger, purer,

happier man; for here as nowhere else in such opulence, you will find 'the friendship of books,' whose acquaintance and influence 'quicken the intelligence, refine the taste, enlarge the understanding, diversify the experience, warm the heart and clarify the soul.' Of all the ministries of a city to its citizens is there any to surpass, to equal this? It invites all the people into the aristocracy of intelligence and character. The best that life has to give man, at his best and highest, it makes the universal prerogative of the whole body of citizenship.

"Shall our Somerville be a city of the latest and coming type, in which the ideal of citizenship is not only to share power, and to seize privilege, but to serve the welfare of all? This library is a pledge that such our city means to be. Its building is an embodied vision of the library of the future in the city of the future. Let us, my fellow citizens, use it, support it, in full faith and generosity, and the vision of today will be the fact of tomorrow."

BOARD OF HEALTH.

1913.

WESLEY T. LEE, M. D., Chairman.

JACKSON CALDWELL.

JOHN A. BLASER.

Clerk and Agent to Issue Burial Permits.

LAURENCE S. HOWARD

Agent.

CALEB A. PAGE.

Medical Inspector.

FRANK L. MORSE, M. D.

Inspector of Animals and Provisions.

CHARLES M. BERRY, V. S.

Inspector of Milk and Vinegar.

HERBERT E. BOWMAN, Ph. G.

Plumbing Inspector.

DUNCAN C. GREENE.

REPORT OF THE BOARD OF HEALTH.

OFFICE OF THE BOARD OF HEALTH, }
City Hall, January 1, 1914. }

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—We respectfully submit the following as the thirty-sixth annual report of the Board of Health, in which is presented a statement, tabulated and otherwise, of the sanitary condition of the city and the business of the board for the year ending December 31, 1913:—

Nuisances.

A record of nuisances abated during the year, in compliance with notices issued by the board, or under the board's direction, is presented in the following table:—

Complaints investigated and causes removed:—

Animals offensive	10
Blacksmith shops whitewashed	9
Cellars, water in	13
Cellars, filthy	14
Cesspools removed	2
Defective garbage houses	5
Dirty milk utensils	7
Factories filthy	1
Fish exposed for sale	2
Garbage thrown in yards	14
Hens being kept without permit	34
Hens running at large	6
Manure heaps, foul odors from	12
Milk license not posted	8
Milk must be kept on ice	14
Milk rooms, screens not on	8
Plumbing unsanitary	16
Privy vaults, foul odors from	2
Roosters annoying neighbors	9
Rubbish on vacant land	7
Sewer openings, foul odors from	3
Slops thrown on ground or from window	2
Stables offensive	19
Stables whitewashed	65
Stables ventilated	7
Stores (bakeries) whitewashed	7
Stores and utensils dirty	26
Tenements filthy	2
Tenements unsanitary	10
Unlicensed animals	7
Unclassified	33
Water-closets, foul odors from	15
Water-closets without water	6
Water pipes burst	2
Water turned off, house not tenantable	2
Yards filthy	79

Total	478
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Complaints referred from 1912	8
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Complaints received 1913	478
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Total	486
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Complaints referred to 1914	6
Nuisances abated 1913	480
Second, third, and fourth notices sent on nuisances	27
Total notices sent	507

In addition to the above, 244 dead animals have been removed from the public streets, and many nuisances have been abated on verbal notice from the agent, without action by the board, of which no record has been made. Each spring the whole city is examined, and cellars, yards and alleyways where rubbish and filth have collected are required to be cleaned.

Glanders.—Sixty-five cases of glanders have been reported during the year. Prompt action was taken in every case, and fifty-five of the horses were killed, ten being released from quarantine by order of the cattle commissioners.

Permits.

The record of permits to keep cows, swine, goats and hens, and to collect grease is as follows:—

Cows.—Twenty-one applications were received for permits to keep fifty-seven cows. Eighteen permits to keep forty cows were granted, and three permits were refused.

Swine.—Nine applications were received for permits to keep seventeen swine, all of which were granted. The fee is one dollar for each swine.

Goats.—Three applications were received for permits to keep three goats which were granted. The fee is one dollar for each goat.

Hens.—One hundred and sixteen applications for permits to keep 2,107 hens were received. Eighty-nine permits to keep 1,634 hens were granted, and twenty-seven permits were refused.

Grease.—Ten applications were received for permits for twelve teams to collect grease. Ten permits were granted. The fee is two dollars for each team.

Melting and Rendering.—Two parties have been licensed to carry on the business of melting and rendering, under the provisions of the revised laws of 1902, chapter 75, section 111, for which a fee of one dollar is charged.

Pedlers.

Two hundred and eighty-four certificates of registration were issued to hawkers and pedlers during the year under the provisions of ordinance number 29—an increase of thirty over the year 1912. Each pedler is required to present a statement from the sealer of weights and measures, showing that his measures and scales have been properly sealed, before a certificate is issued to him. Pedlers are also required to present

their vehicles at the police station the first Monday of each month for inspection by the agent of the board, that he may see if they are kept in a clean condition, and are properly marked with the owner's name and number. A fee of one dollar is charged for each registration.

Stables.

Under the provisions of sections 69 and 70 of chapter 102 of the revised laws of 1902, twenty-four petitions for licenses to erect and use stables were received, sixteen were granted, seven were refused, and action on one is still pending.

Board of Infants.

Twenty-eight parties, whose applications were first approved by this board, have been licensed by the state board of charity to care for fifty-six children in this city, under the provisions of chapter 83 of the revised laws of 1902.

Deaths.

There were 993 deaths and fifty-one stillbirths in the city during the year, as specified in the following table, which shows an increase of deaths over the previous year of ten:—

Deaths at Somerville hospital during the year . .	61
Deaths at hospital for contagious diseases and tuberculosis	34
Deaths at home for aged poor (Highland avenue), . .	53
Deaths at city home	11
Deaths at other institutions	21

DEATHS BY AGES.

AGES.	Total.	Male.	Female.
Under one	166	105	61
One to two	26	10	16
Two to three	13	8	5
Three to four	8	4	4
Four to five	5	3	2
Five to ten	10	7	3
Ten to fifteen	7	4	3
Fifteen to twenty	17	12	5
Twenty to thirty	49	16	33
Thirty to forty	73	40	33
Forty to fifty	71	35	36
Fifty to sixty	114	63	51
Sixty to seventy	160	72	88
Seventy to eighty	175	75	100
Eighty to ninety	80	26	54
Ninety and over	19	7	12
Total	993	487	506

Mortality in Somerville in 1913.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
I. GENERAL DISEASES.													
(A. Epidemic Diseases.)													
Scarlet fever	1		1			1			1				4
Diphtheria		4	3	1		1	1	1		1		1	13
Typhoid fever						1		2		1	1	1	6
Dysentery			1						1				2
La grippe	2			1		1							4
Measles		2	1	2									5
Infantile Paralysis			1										1
Pertussis									1				1
(B. Other General Diseases.)													
Septicæmia	1	1	1	1	1	1	1				1	1	9
Rheumatism									2				2
Pernicious anæmia						1		1				2	4
Cancer of thigh							1						1
Cancer of bladder			1										1
Cancer of bowel		1											1
Cancer of breast		1	1										2
Cancer of face					2								2
Cancer intestines			1	1		1		2	1	1	1	1	9
Cancer of prostate gland	1												1
Cancer liver and kidneys		1	1	2	1		1		1		2	1	10
Cancer of anus							1						1
Cancer of stomach	2	4	1	3	1		2	3	1	1	2	3	23
Cancer of jaw and throat	1		1							1			3
Cancer of uterus				1			1		3				5
Cancer of rectum													1
Cancer of pylorus		1					1						2
Tumor	1		1					1					3
Diabetes	1	1	1	1		1					1	1	7
Tuberculosis	7	9	4	7	7	4	4	6	2	9	7	3	69
Tubercular meningitis	2	1	2	1	1	2	1	1	2	1	1		15
Tuberculosis of peritonium											1		1
Tetanus											1		1
Tuberculosis of bowels												1	1
Actinomycosis						1							1
Tuberculosis of testicle						1							1
Abscess		1											1
Hodgkins' disease		1											1
Stricture of colon		1											1
Epithelioma				1						1			2
Erysipelas			1										1
II. DISEASES OF THE NERVOUS SYSTEM.													
Meningitis	1		1						1	2			5
Apoplexy	9	2	4	9	1	9	10	2	3	7	3	11	70
Paralysis			1					1					2
Tabes dorsalis							1				1	1	3
Hemiplegia			1				1					1	3
Epilepsy	1								1				2
Eclampsia					1		1						2
Encephalitis												1	1
Cerebro embolism	1				3				1				5
Myelitis		1					1				2		4
III. DISEASES OF THE CIRCULATORY SYSTEM.													
Atheroma		1											1
Heart disease	9	18	6	11	11	10	3	8	5	10	10	7	108
Endocarditis		2	1	2	1		1	2	2	2	1	2	16
Myocarditis	1	2	5	3	4	3		1	1	4	1	3	28
Angina pectoris		1	2		1			1	2				7
Regurgitation		2	2				2		1	1	1	5	14
Prog. muscular atrophy		1							1	1		1	4
IV. DISEASES OF THE RESPIRATORY SYSTEM.													
Pneumonia	16	16	10	16	10	5	4	7	5	5	10	23	127
Bronchitis	1	2	2				1		3	1	1	2	13
Pulmonary œdema		1	1		4	2	1	1				2	12
Pleurisy				1								1	2
Laryngitis	1					1							2
Pulmonary embolism								1					1
Pulmonary emphyseamia						1							1
Asthma												1	1

MORTALITY IN SOMERVILLE IN 1913.—Concluded.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
V. DISEASES OF THE DIGESTIVE SYSTEM.													
Acute indigestion	1	1	1	2	...	...	...	...	1	...	...	...	6
Colitis	...	...	1	...	...	...	2	1	1	1	...	...	6
Gastritis	1	1	1	...	1	...	...	...	...	...	...	...	4
Peritonitis	1	1	1	1	...	1	2	...	...	1	...	...	8
Diarrhea	...	...	...	...	...	...	...	...	1	...	...	...	1
Cholera infantum	...	...	...	...	1	1	2	5	3	1	...	...	13
Ptomaine poisoning	...	...	...	...	...	1	...	...	...	...	...	...	1
Gastric ulcer	...	...	...	...	...	...	...	...	...	1	...	...	1
Enteritis	3	1	1	2	1	...	3	10	3	...	1	1	26
Hemorrhage of pancreas	...	...	...	...	1	...	...	...	...	1	...	...	2
Intestinal obstruction	...	1	1	1	1	...	1	1	...	...	...	1	7
Appendicitis	...	1	...	...	...	1	...	...	...	...	1	...	3
Rupture of appendix	...	...	...	...	...	1	...	...	...	...	...	...	1
Cirrhosis liver	3	1	...	...	1	...	...	...	...	...	1	2	8
VI. DISEASES OF GENITO-URINARY SYSTEM.													
Bright's disease	1	...	...	1	...	4	1	1	1	1	2	...	12
Uraemia	1	1	...	...	...	1	...	1	...	...	...	1	5
Nephritis	1	4	3	5	5	1	2	3	5	4	3	3	39
Prostatitis	...	...	...	...	...	...	...	1	...	...	...	...	1
Cystitis	...	...	...	1	...	...	1	...	...	1	...	...	3
VII. CHILDBIRTH.													
VIII. DISEASES OF THE SKIN AND CELLULAR TISSUES.													
Gangrene	...	2	...	...	...	...	...	...	...	...	...	...	2
IX. MALFORMATIONS.													
Hydrocephalus	1	...	...	1	...	1	...	...	...	...	...	...	3
X. EARLY INFANCY.													
Malnutrition	1	...	...	...	...	1	...	1	2	1	2	...	8
Asphyxia neonatorum	...	...	...	...	2	1	...	...	2	...	1	...	6
Premature birth and congenital debility	3	8	3	3	4	3	5	4	4	3	6	6	52
Stalectasis	...	1	...	...	...	...	...	...	...	...	...	...	1
XI. OLD AGE.													
Old age	...	2	1	...	...	2	...	...	...	1	2	1	9
Senile dementia	...	1	1	1	...	...	...	...	1	1	...	1	6
Arterio-sclerosis	5	15	8	5	2	5	6	6	3	3	3	9	70
General malnutrition	...	...	...	...	1	...	...	...	...	...	...	...	1
XII. VIOLENCE.													
Drowning	...	...	1	...	...	...	...	...	...	...	...	...	1
Railroad	3	...	...	...	...	...	1	...	1	...	...	1	6
Suicide	1	1	...	1	...	1	...	...	...	...	...	...	4
Burning	...	...	1	...	...	1	...	...	...	1	...	1	4
Suffocation	...	...	...	...	...	...	...	...	...	...	2	...	2
Accidental burns from hot water	...	...	...	...	...	...	...	1	...	1	...	...	2
Accidental gas poisoning	...	...	...	...	...	...	...	...	...	...	1	...	1
Fracture of skull	...	...	...	...	...	1	2	2	...	1	1	...	7
Surgical shock	1	...	...	...	...	...	...	...	...	...	...	...	1
Accidental poisoning	...	...	...	1	1	...	...	...	...	2	...	...	4
Accidental shooting	...	1	...	...	...	...	...	...	...	...	...	...	1
Heat prostration	...	...	...	...	...	...	1	...	...	...	...	...	1
Run over by team	...	...	...	...	...	1	...	...	...	...	...	...	1
Fracture of Humerus	...	...	1	...	...	...	...	...	...	...	...	...	1
Total	86	121	84	89	71	75	69	78	69	74	72	105	993

Population (estimated) 82,000
 Death rate per thousand 12.11

Diseases Dangerous to the Public Health.

This board has adjudged that the diseases known as actinomycosis, anterior poliomyelitis, Asiatic cholera, cerebrospinal meningitis, diphtheria, glanders, leprosy, malignant pustule, measles, ophthalmia neonatorum, scarlet fever, smallpox, tetanus, trachoma, trichinosis, tuberculosis, typhoid fever, typhus fever, varicella, whooping cough and yellow fever are infectious, or contagious, and dangerous to the public health and safety within the meaning of the statutes. Physicians are required to report immediately to the board every case of either of these diseases coming under their care, and postal cards conveniently printed and addressed are supplied to them for the purpose. On receipt of a card from a physician, the superintendent of schools, the principal of the school in the district in which the patient resides, the librarian of the public library and the state board of health are notified.

Scarlet Fever.—Two hundred eight cases of scarlet fever have been reported during the year, four of which resulted fatally. In 1912 there were 157 cases, two of which resulted fatally.

Diphtheria.—One hundred sixty-one cases of diphtheria have been reported during the year, thirteen of which were fatal. In 1912 there were 101 cases, fourteen of which proved fatal. Anti-toxin has been provided by the state board of health, and placed by this board in central locations for use by physicians. Culture tubes for diphtheria and sputum bottles for suspected tuberculosis are obtainable at the same stations.

Warning cards are used in dealing with scarlet fever and diphtheria, and the premises are fumigated by the use of formaldehyde gas immediately after the termination of the case. An inspection is made by the agent of the board of the premises where diphtheria is reported, and all sanitary defects discovered are required to be remedied as soon as possible.

Tuberculosis.—One hundred eighty cases of tuberculosis have been reported during the year. There were sixty-nine deaths from this disease.

Typhoid Fever.—Sixty-six cases of typhoid fever have been reported during the year, six of which have proved fatal. In 1912 there were forty-three cases reported, four of which were fatal.

Number of persons with diphtheria or scarlet fever taken in ambulance to hospital by agent	173
Number of cases of scarlet fever and diphtheria for which houses were placarded	225
Number of premises disinfected by agent	618

It will be seen by the foregoing figures that 618 premises were disinfected. Twenty disinfections were made at the request of attending physicians whose patients had been ill with typhoid fever, cancer, or other diseases. One hundred twenty-one schoolrooms were disinfected, eighty-nine for scarlet fever,

thirty-two for diphtheria, and 163 premises for tuberculosis, in compliance with the regulations passed by this board.

Many library books have also been disinfected, and quantities of infected bedding and other material have been burned.

TABLES.

The prevalence of scarlet fever, diphtheria, and typhoid fever in the city during the several months of the year 1913 is shown by the following table, and in the table next following is given the number of deaths from these three diseases, by months, during the last ten years:—

Scarlet Fever, Diphtheria and Typhoid Fever Reported in 1913.

MONTHS.	SCARLET FEVER.			DIPHTHERIA.			TYPHOID FEVER.		
	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.
January . . .	30	1	3.3	14	...	...	...	...	...
February . . .	15	...	...	16	4	25.0	14	...	...
March . . .	26	1	3.8	12	3	25.0	...	...	...
April . . .	11	...	...	19	1	5.2	4	...	...
May . . .	11	...	...	11	...	...	1	...	...
June . . .	21	1	4.8	9	1	11.0	1	1	100.
July . . .	12	...	...	6	1	16.6	4	...	...
August . . .	3	...	...	13	1	7.7	4	2	50.
September . . .	11	1	9.1	3	...	...	12	...	...
October . . .	12	...	...	14	1	7.1	15	1	6.6
November . . .	26	...	...	18	...	...	7	1	14.3
December . . .	30	...	...	26	1	3.8	4	1	25.
Total . . .	208	4	1.9	161	13	8.1	66	6	9.0

Deaths from Scarlet Fever, Diphtheria and Typhoid Fever in the Last Ten Years.

MONTHS.	SCARLET FEVER.										DIPHTHERIA.										TYPHOID FEVER.									
	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912.	1913.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912.	1913.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912.	1913.
January . . .	...	...	...	3	2	...	1	...	1	3	3	...	1	4	5	1	1	...	1	...	1	...	1	1	...	1	...	1	...	...
February . . .	1	1	2	...	1	...	1	...	1	3	2	2	...	4	3	4	...	4	...	1	...	1	...	...	...	1	1	...	...	...
March . . .	1	1	...	1	3	1	1	...	1	...	...	2	...	1	3	...	1	3	3	...	...	...	...	...	...	...	...	1	...	...
April . . .	...	...	1	...	2	1	...	...	...	1	1	5	...	2	2	2	1	...	1	...	1	3	...	...	1	1	...	...	...	...
May . . .	...	...	...	1	1	...	...	...	1	3	1	2	1	1	1	2	1	...	1	...	1	1	2	2	1	1	...	...	3	1
June . . .	...	1	...	...	...	1	...	...	1	...	1	1	...	1	2	2	1	1	1	1	1	2	2	1	1	...	...	...	1	...
July . . .	...	...	...	...	...	2	...	...	...	1	...	1	...	1	2	2	1	...	1	1	1	1	...	...	1	...	...	...	...	...
August . . .	...	1	2	...	...	...	...	...	...	1	...	...	1	3	1	1	1	...	1	2	...	...	...	1	1	...	2	...	2	...
September . . .	...	...	...	...	...	...	...	...	1	...	1	...	...	2	2	2	1	...	1	...	...	...	...	1	1	...	1	2	...	...
October . . .	...	...	1	1	...	...	...	...	...	...	2	2	...	...	...	...	1	1	1	1	1	2	4	1	4	...	...	...	1	...
November . . .	...	...	1	1	...	...	1	...	...	3	1	1	2	1	...	1	4	...	3	3	3	3	1	2	1	...	...	...	1	...
December . . .	1	...	2	...	2	...	...	...	...	2	3	1	4	2	3	1	...	3	1	...	1	...	...	...	...	...	...	...	1	1
Total . . .	3	4	12	4	9	5	3	2	4	14	17	15	9	11	27	20	15	14	13	11	9	11	11	9	8	6	6	4	6	6

Table of Deaths During the Last Ten Years.

Year.	No. of Deaths.	Rate per 1,000.
1904	964	13.87
1905	968	13.83
1906	1,004	13.94
1907	997	13.47
1908	903	11.96
1909	983	13.08
1910	1,043	13.45
1911	1,035	12.93
1912	983	12.13
1913	993	12.11
Average death rate per 1,000 for ten years . . .		13.07

Table Showing the Five Principal Causes of Death in Somerville in 1913.

PNEUMONIA.		HEART DISEASE.		TUBERCULOSIS.		APOPLEXY.		CANCER.	
Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.
127	15.5	108	13.2	91	11.1	70	8.5	67	8.1

Medical Inspection of Schools.

The medical inspection of the schools of Somerville, which was instituted in December, 1907, has been continued during the year. The value of the system has been constantly demonstrated, and the work has been done in a very satisfactory manner. There has been harmony of action between the board of health and the school board, and the school principals and teachers have very generally co-operated with the inspectors in making the system as successful as possible.

The inspectors make daily visits to the schools under their charge, and to them are referred all children who show evidences of disease or abnormal conditions. Children who are found to be unfit to remain in school are sent home, accompanied by a slip properly filled out advising that the family physician be consulted. The inspectors also make an annual inspection of all the children in the schools, and any defects discovered are called to the attention of the parents. Monthly inspections of the school buildings and premises are made, and suggestions or criticisms are referred to the proper authorities. Every effort is made to protect the health of the children and to co-operate with the parents in keeping the children in as normal a condition as possible.

It is extremely desirable that one or more additional school nurses should be employed to supplement and make more effective the work of the inspectors, and it is to be hoped that funds will be available to carry out this project. One nurse has been employed since last September.

In accordance with the provisions of the statute, tests, of sight and hearing are made by the principals or teachers.

During the year, 6,603 children have been referred to the inspectors during their daily visits, and 657 have been sent home because of illness.

The following list will show the classes of diseases and defects which have been found in the schools, except defects of sight and hearing:—

LIST OF DISEASES AND NUMBER OF CASES REPORTED.

1. Infectious diseases:—		
Measles	90	
Whooping cough	17	
Chicken pox	43	
Mumps	86	
Scarlet fever	16	
Total		252
2. Diseases of the nose and throat:—		
Enlarged tonsils and adenoids	510	
Inflammatory diseases	53	
Other abnormal conditions	82	
Total		645
3. Diseases of the eyes:—		
Inflammatory conditions of the eyes and lids	37	
Foreign bodies and injuries	3	
Other abnormal conditions	46	
Total		86
4. Diseases of the ears:—		
Inflammatory conditions	6	
Other abnormal conditions	5	
Total		11
5. Diseases of the skin:—		
Pediculosis	960	
Impetigo	56	
Scabies	17	
Eczema	57	
Tinea	6	
Herpes	19	
Miscellaneous conditions	83	
Total		1,198
6. Miscellaneous diseases:—		
Constitutional diseases	43	
Diseases of the digestive system	94	
Diseases of the respiratory system	44	
Diseases of the circulatory system	16	
Diseases of the lymphatic system	34	
Diseases of the nervous system	7	
Diseases of the urinary system	4	

Wounds and injuries	25
Diseases of teeth	265
Other conditions	150
Total	682
Total number of diseases reported	2,874
Vaccinations performed	231
Examinations for vaccinations	825

The districts and inspectors are as follows:—

District No. 1.—Prescott, Hanscom, Davis, and Edgerly schools. Inspector, Dr. Francis Shaw, 57 Cross street.

District No. 2.—Baxter, Knapp, Perry, and Bell schools. Inspector, Dr. Edward J. Dailey, 46 Bow street.

District No. 3.—Bennett, Pope, Cummings, and Proctor schools. Inspector, Dr. L. H. Raymond, 146 Highland avenue.

District No. 4.—Morse, Carr, Durell, and Burns schools. Inspector, Dr. W. L. Bond, 322 Highland avenue.

District No. 5.—Brown, Bingham, and Forster schools. Inspector, Dr. H. M. Stoodley, 283 Highland avenue.

District No. 6.—Lincoln, Hodgkins, Highland, Cutler, and Lowe schools. Inspector, Dr. H. Cholerton, 94 College avenue.

District No. 7.—Glines and High schools. Inspector, Dr. R. F. Gibson, 76 College avenue.

Parochial Schools.—Inspector, Dr. M. W. White, 21 Walnut street.

Hospital for Contagious Diseases.

Scarlet Fever and Diphtheria.—The hospital has continued to demonstrate its value to the city during the past year. The institution is now well equipped and in every way modern and convenient.

Miss Edith M. Grant has continued as matron, and has done excellent work. The hospital has been carried on economically, and in every particular the results have been satisfactory to the board.

The statistical report is included in the report of the medical inspector.

Tuberculosis Hospital.

The tuberculosis hospital has been in operation since March 8 of the year 1911, and has proved conclusively the necessity and desirability of such an institution in our city.

There have been eighty-four patients received at the hospital during 1913.

The conditions shown and the results obtained in the cases received prove, also, the need of continued work along this line on a broader basis. Recent figures show that there are approximately 40,000 cases of tuberculosis in Massachusetts, and that there are accommodations for not more than 4,000 patients. The state is making every effort to save its people, and

each city and town should feel itself, in a manner, responsible for the progress of this work. It is to the credit of the city of Somerville that we are among the first who have established a hospital for tuberculosis, and that our hospital has been approved by the trustees of hospitals for tuberculosis.

The good work accomplished and the outlook for the coming year promise even greater results in the future, both from the standpoint of the work actually done, and the help rendered to the patients, and, last, but by no means least, the information and instruction, which is a great factor on the treatment of this disease, is being steadily pursued and given out, that those who are discharged from the hospital may know how to safeguard and care for others as well as themselves and prevent, so far as is possible, the spread of tuberculosis in the city.

It is very necessary that another building similar in size and construction to the present building should be built at once, as the accommodations are not adequate to provide for patients desiring admission.

Mental Disorders.

Under the provisions of Chapter 394 of the Acts of the Legislature of 1911 the Board of Health is required to provide a place for the care of and to care for persons suffering from certain mental disorders prior to their commitment to an institution. At the present time this Board has no proper place at its command for the detention and care of these cases. A very suitable arrangement could be made for this work in the building suggested above.

Bacteriological Department.

The work of this department was performed by Frank L. Morse, M. D., medical inspector of the board, whose report is appended to this report.

Specimens will be received at the laboratory at the city hall daily, including Sunday, at any time, and they will be examined and reported upon the morning following their reception.

SPECIMENS AND ANTI-TOXIN.

Outfits for specimens to be examined for tuberculosis, diphtheria, and typhoid fever, and diphtheria anti-toxin, vaccine lymph and nitrate of silver solution may be obtained at the laboratory and at the following places:—

Adams Pharmacy, Willow and Highland avenues.

R. A. Peckham, 154 Perkins street.

Bay State Pharmacy, 173 Washington street.

Edward E. Edwards, 25 Union square.

Fred W. Gay, 524 Somerville avenue.

John Morrison, Highland avenue, corner Cedar street.

Percy A. Hall, 2 Studio building, Davis square.

Henry W. Perry, 529 Medford street, Magoon square.

Eugene B. Carpenter, 10 Broadway.

Richardson Pharmacy, 310 Broadway.

George E. Wardrobe, 693 Broadway.

Willis S. Furbush & Co., 1153 Broadway.

After the specimen is collected it must be taken to the culture station or sent directly to the laboratory at the city hall.

Undertakers.

Under the provisions of section 44 of chapter 78 of the revised laws of 1902, twenty-two persons have been duly licensed as undertakers.

Examiners of Plumbers.

The public statutes provide for a board of examiners of plumbers, consisting of the chairman of the board of health, the inspector of buildings, and an expert at plumbing, to be appointed by the board of health. This board appointed Duncan C. Greene, the inspector of plumbing, to fill the place of expert. The number of licenses granted will be found in the report of the inspector of buildings.

Financial Statement for 1913.

HEALTH DEPARTMENT.

CREDIT.

Appropriation	\$10,400 00	
Appropriation	350 00	
Received from Commonwealth of Massachusetts	1 14	
Received from Contagious Hospital account	21 60	
Total credit		\$10,772 74

DEBIT.

Salaries	4,300 00	
Burying dead animals	85 75	
Books, stationery, postage, etc.	153 47	
Bacteriological laboratory	60 70	
Board of agent's horse	336 00	
Horseshoeing	31 25	
Repairing harnesses	29 60	
Repairing vehicles	153 50	
Telephones	154 98	
Care of diseases dangerous to the public health (settled in Somerville)	5,136 94	
Incidentals	205 88	
Total debit		\$10,648 07
Amount unexpended		\$124 67

Inspection of Animals and Provisions.

CREDIT.

Appropriation	\$1,250 00
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DEBIT.

Salary of Inspector	\$1,200 00
Sundry expenses	33 38

Total debit	\$1,233 38
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Amount unexpended	\$16 62
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Inspection of Milk and Vinegar.

CREDIT.

Appropriation	\$1,800 00
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DEBIT.

Salary of Inspector	\$1,300 00
Office and laboratory expenses	126 53
Maintenance of Inspector's auto	343 88

Total debit	\$1,770 41
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Amount unexpended	\$29 59
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Inspection of School Children.

CREDIT.

Appropriation	\$2,150 00
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DEBIT.

Salaries	\$1,744 83
Incidentals	30 43

Transferred to Health Department	\$1,775 26
	350 00

Total debit	\$2,125 26
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Amount unexpended	\$24 74
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Contagious Hospital.

CREDIT.

Appropriation	\$12,000 00
Appropriation	1,000 00
Appropriation	4,000 00

Total credit	\$17,000 00
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DEBIT.

Salaries	\$7,991 21
Groceries and provisions	6,960 83
Supplies	1,350 35
Incidentals	688 58

Total debit	\$16,990 97
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Amount unexpended	\$9 03
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Appropriations Unexpended.

Health Department	\$124 67
Inspection of Animals and Provisions	16 62
Inspection of Milk and Vinegar	29 59
Inspection of School Children	24 74
Contagious Hospital	9 03

Total amount unexpended \$204 65

WESLEY T. LEE, M. D., Chairman,
JACKSON CALDWELL,
JOHN A. BLASER,

Board of Health.

REPORT OF THE MEDICAL INSPECTOR.

Somerville, January 1, 1914.

To the Board of Health of the City of Somerville:—

Gentlemen,—I herewith present the report of the medical inspector for the year 1913, including the statistics of the contagious disease hospital and the bacteriological laboratory.

Scarlet Fever. During the year 208 cases of this disease were reported in the city, an increase of fifty-one in number over the previous year. Every case has been inspected, before the house was fumigated, and 156 visits were made at residences to determine when desquamation was complete.

Diphtheria. During the year 161 cases of diphtheria have been reported in the city, an increase over the previous year, when 101 cases were reported. The same restrictions are placed upon all cases, and before patients are released from quarantine two successive negative cultures must be obtained. It is optional with the attending physician to take the first culture, but the second must be taken by the medical inspector, and during the year 161 visits were made at houses for this purpose.

Typhoid Fever. During the year sixty-six cases of this disease were reported, an increase of twenty-three over the previous year.

Tuberculosis. One hundred and eighty cases of tuberculosis were reported during the year, an increase of twenty-five over the year previous. In November, 1906, following a conference with the overseers of the poor, these cases, which had been previously cared for medically by the city physician, were transferred to the board of health and the medical inspector instructed to care for them. During 1913 such cases have been transferred to the new tuberculosis hospital for treatment.

Ophthalmia Neonatorum. Thirty-three cases of this disease were reported to the board during 1913, all of which were visited and such action taken as was necessary to prevent blindness.

Contagious Disease Hospital.

In September, 1906, following a change in the city charter, the city physician, who, up to this time, had treated the cases at the hospital, was relieved of this duty, and the care of the patients transferred to the medical inspector on October 1. During 1913 this arrangement has continued, 360 visits having been made at the hospital during the year.

Scarlet Fever. During the year eighty-two cases of scarlet fever were admitted, four of which proved fatal, two dying within twenty-four hours. Forty-four of these cases were among males, and thirty-eight among females. Fifteen were under five years of age, thirty-one from five to ten years, and the remainder, thirty-five, were over ten years. Vomiting was a constant symptom, it occurring in forty-nine cases, and a sore throat in sixty-three cases. In four cases the rash occurred on the first day of illness, in thirty-six cases on the second day, in ten instances on the third day, and three on the fourth day. There was membrane present on the tonsils in twenty cases; in four cases the disease was complicated with nephritis; in four cases with rheumatism; in eleven cases with discharging ears, with three mastoid operations; in nine with enlarged cervical glands, two of which were opened, and in addition two had diphtheria on admission, and one mumps. The average stay in the hospital was forty days. One patient developed varicella nine days after admission.

One patient was operated on for suppurating axillary glands, and two patients were attended by their own physician.

Diphtheria. During the year ninety-one cases of diphtheria were admitted, ten of which proved fatal. Of these patients, thirty-seven were among males and fifty-four among females. Nineteen were under five years of age; forty-one were from five to ten, and the remainder, thirty-one, were over ten. Five entered the hospital on the first day of their illness, and all recovered. Twenty-eight entered the second day of the illness, all recovered; nineteen on the third day, with one death; eight on the fourth day, with no deaths; seven on the fifth day, with one death; two on the sixth day, both dying; six on the seventh day, three dying. The importance of early treatment with anti-toxin is thus very obvious. Of the twenty-one laryngeal cases sixteen came to intubation, twelve of whom recovered. In nineteen patients the membrane extended over both tonsils, uvula and palate, fourteen recovering. The throat was clear of membrane in seven cases on the second day, in twelve cases on the third, in ten cases on the fourth, in nineteen cases on the fifth, in eleven on the sixth, in three on the ninth, one on the eleventh, three on the twelfth, and one on the fourteenth. In twenty-nine patients eruptions appeared on the body due to the use of the anti-toxin, and in three patients joint pains occurred from the same cause, two patients had enlarged cervical glands. The average stay in the hospital was seventeen days. Of the ten deaths during the year, three died within one hour of admission, two being intubations and one septic. One case had scarlet fever upon admission. Two cases were attended by their own physicians.

Tuberculosis.

In March, 1911, the tuberculosis hospital, accommodating eighteen patients, was completed by the building commissioner and transferred to the board, the first patient being admitted March 8. During 1913 eighty-four patients ill with this disease have been admitted, and several times during the year the hospital has reached its normal capacity, which indicates its well-founded need.

Many of these patients were in the advanced stage of the disease, thus removing from the patients' homes the danger of infection of the members of the family. Nineteen deaths have been recorded.

Other patients have been discharged with the disease arrested, and others have been transferred to the state hospitals for treatment. The need of this department will be more marked during the coming year, and recommendations should be made to provide for its enlargement.

Other Diseases.

Thirteen other patients have been admitted during the year as follows: Five cases of measles, two of erysipelas, one of tonsillitis, and five mental cases, were also admitted to the hospital, upon the request of the police department, as required by Chapter 394, Acts of 1911. The latter patients were cared for in a room on the first floor of the hospital and attended by police officers if they were males, and nurses if females. The accommodations were visibly inadequate for such patients, and they were usually committed to an insane hospital on the following day.

Patients Treated at the Contagious Hospital.

DISEASE.	Admission by Months.												Total admitted.	Discharged.	Died.	Remaining January 1, 1914.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.				
Scarlet fever. . .	9	5	10	4	1	5	4	1	10	10	12	11	82	64	4	19
Diphtheria . . .	6	11	6	9	5	6	3	9	1	8	9	18	91	71	10	13
Tuberculosis. . .	7	7	6	8	7	5	5	7	5	9	9	9	84	63	19	19
Totals	22	23	22	21	13	16	12	17	16	27	30	38	257	198	33	51
	Remaining January 1, 1913.															

Bacteriological Department.

During the year 1913, 826 examinations were made of cultures for the diphtheria organism, 294 examinations made of sputum from patients suspected of having tuberculosis, and 156 examinations to detect the Widal reaction in typhoid fever.

Diphtheria. Eight hundred and twenty-six cultures have been examined for diphtheria, 387 being in males, and 439 in females. Diphtheria being a disease of children, 218 of these examinations have been made in children under five years of age, 276 in those from five to ten years of age, 132 from ten to twenty, and 196 in adults over twenty years. In four cases the age of the patient was not stated. Four hundred and two examinations were made for the diagnosis of the case, sixty prov-

ing positive and 342 negative. Of the positive results, fifteen were of cases in which the attending physician's diagnosis of diphtheria was confirmed, thirteen in which the clinical diagnosis was not diphtheria, and thirty-two in which no definite diagnosis was made. Of the 342 negative examinations, forty-one were obtained in which the clinical diagnosis was diphtheria, 111 in which the diagnosis was not diphtheria, and 110 in which no diagnosis had been made.

Four hundred and twenty-four cultures were taken for release of patients from quarantine, eighty-six of which were positive and 339 negative. The importance of taking release cultures is demonstrated by these figures, these patients showing the presence of the bacilli in the throat after the clinical evidence of the disease had disappeared. In two examinations there was no growth upon the serum tube.

Tuberculosis. Two hundred and ninety-four examinations have been made of sputum suspected of containing the tubercle bacillus, 107 of which were positive and 187 negative. In 137 cases a definite diagnosis of this disease had been made by the attending physician, but in sixty-five of them the organism could not be detected. In the remainder of the cases, ninety-one were stated as not showing evidence of the disease, eighteen being positive, and in sixty-six cases no statements were made giving information as to its character, seventeen of which were positive. One hundred and fifty were males and 144 females. Although printed directions accompany each outfit, telling how the specimen should be obtained, it has not been unusual for specimens to be sent to the laboratory containing only saliva from the mouth, with no excretion from the lungs or bronchial tubes. Physicians should be urged to give definite instructions to each patient, relating to the collection of the sputum, for in some instances a negative report would mislead both physician and patient. Consumption to-day is recognized as an infectious disease, and all persons afflicted with it should be instructed in the modern methods for preventing its spread. In some cases this is not done by the attending physician, and during the past ten years your board has required that this disease be reported to you, as other infectious diseases are, and that printed instructions and advice be sent to each patient ill with the disease. The decrease in the death rate of consumption, and the cure of persons afflicted with it, is due to the improved and intelligent manner with which cases are treated, and the prevention of further spread of the disease is a subject which is of importance to all local boards of health.

Typhoid Fever. One hundred and fifty-six examinations of the blood of patients suspected of having typhoid fever have been made, twenty-four of which proved positive. In fifty-

REPORT OF THE INSPECTOR OF ANIMALS AND PROVISIONS.

Somerville, Mass., January 1, 1914.

To the Board of Health of the City of Somerville:—

Gentlemen,—I herewith present my report for the year ending December 31, 1913:—

Inspections.

Cold storage houses	122
Wholesale meat houses	160
Retail grocery and meat markets	2987
Retail fish markets	456
Retail pedlers wagons	1435
	5160

The cold storage houses, grocery, meat and fish markets as a rule are kept in a good sanitary condition.

The following list shows the goods condemned during the year:—

Meats.

Fresh beef, 911 pounds; corned beef, 580 pounds; lamb, 576 pounds; poultry, 687 pounds; fresh pork, 192 pounds; salt pork, 97 pounds; liver, 48 pounds; hamburger steak, 34 pounds; tripe, 145 pounds; pigs' feet, 138 pounds; veal, 197 pounds.

Eggs.

Eggs, 21 dozen.

Fish.

Haddock, 615 pounds; halibut, 216 pounds; pollock, 165 pounds; salmon, 107 pounds; swordfish, 69 pounds; shad, 43 pounds; herrings, 1,650 pounds; mackerel, 297 pounds; clams, 6 quarts; clams, 2 bushels; oysters, 2 gallons.

Fruit.

Oranges, 9 boxes; grapefruit, 2 1-2 boxes; lemons, 19 dozen; strawberries, 39 quarts; blackberries, 31 quarts; raspberries, 21 cups; grapes, 17 baskets; bananas, 138 dozen; cantaloupes, 17 crates; apples, 12 bushel.

Vegetables.

Cabbage, 6 barrels; string beans, 9 baskets; celery, 34 bunches; cauliflower, 39 head; rhubarb, 5 crates; tomatoes, 39 baskets; onions, 14 bushels; turnips, 8 barrels; asparagus, 37 bunches; squash, 5 barrels; sweet potatoes, 9 crates; potatoes, 21 bushels; greens, 11 bushels; lettuce 8 dozen.

Slaughter House Inspection.

Each week during the year I have been in attendance at the N. E. D. M. & W. Co., and the N. P. & P. Co., every other week, Sturtevant & Haley Beef & Supply Co.

J. P. Squire once every three weeks and Walter Gordon Co., (poultry and swine) once a week.

It must be understood that I am on call at all times at any of these places when my presence is required.

The following list shows the number of animals slaughtered in this city during the year:—

Swine	.	.	.	.	.	.	.	.	.	1,181,515
Cattle	.	.	.	.	.	.	.	.	.	35,173
Calves	.	.	.	.	.	.	.	.	.	73,608
Sheep	.	.	.	.	.	.	.	.	.	425,665
										1,715,961

Animals.

A close watch has been kept of all the domestic animals in the city and 468 visits have been made at the stables during the year.

	No.	Quarantined.	Killed	Released
Horses	4,408	65	55	10
Cows	46	4	2	2
Goats	2	0	0	0
Swine	112	0	0	0
Dogs	6	2	0	2
Total	4,574	71	57	14

All blacksmith shops, cow stables and stables for horses were whitewashed and disinfected during the year.

Bakeries have been required to screen all doors and windows, and 776 inspections have been made.

Barber shops are required to keep in a sanitary condition all the time and to properly sterilize their utensils.

Factories.

There have been 185 inspections of factories during the year. Daily assistance has been rendered Mr. Page in his work as sanitary inspector and in conveying patients to the contagious hospital by ambulance.

Respectfully submitted,

CHARLES M. BERRY,
Inspector of Animals and Provisions.

REPORT OF THE INSPECTOR OF MILK AND VINEGAR.

LABORATORY OF THE INSPECTOR OF MILK AND VINEGAR, }
City Hall, Somerville, Mass., January 1, 1914. }

To the Board of Health of the City of Somerville:—

Gentlemen,—I herewith present my annual report for the year ending December 31, 1913.

On the above date there were in this city licensed to sell milk, 400 stores and seventy-eight pedlars, and thirteen stores to sell oleomargarine.

Sixty-seven stores have gone out of business or changed hands during the year.

Of the seventy-eight pedlars thirty-five are located in this city and forty-three in the neighboring cities and towns.

There are approximately 6,200 gallons of milk distributed in Somerville daily and sixteen dealers selling pasteurized milk supply over one half of this amount.

Financial Statement.

Appropriation, 1913	.	.	.	.	.	.	\$1,800 00
License fees	.	.	.	.	.	\$279 00	
Fees for analysis	.	.	.	.	.	194 50	
Fines	.	.	.	.	.	62 00	
							\$535 50
							\$1,264 50
Balance unexpended	.	.	.	.	.	.	29 59
Actual expenses of department	.	.	.	.	.	.	\$1,234 91

Figured on a population of 82,000 and an appropriation of \$1,800 the expenses of this department were (2-1-10) two and one-tenth cents per capita.

Table 1.

Months.	License Issued.	License Fees.	Analytical Fees.	Cash paid City Treas.	Analyses on Account.	Total Income for Dept.
January . . .	8	\$4.00	\$3.00	\$7.00	\$11.50	\$18.50
February . . .	11	5.50	2.00	7.50	11.50	19.00
March . . .	6	3.00	1.00	4.00	7.00	11.00
April . . .	22	11.00	7.50	18.50	8.50	27.00
May . . .	280	140.00	1.50	141.50	6.00	147.50
June . . .	158	79.00	....	79.00	18.50	97.50
July . . .	13	6.50	1.00	7.50	19.00	26.50
August . . .	16	8.00	3.00	11.00	16.00	27.00
September . . .	14	7.00	....	7.00	15.00	22.00
October . . .	12	6.00	1.50	7.50	21.00	28.50
November . . .	10	5.00	....	5.00	10.00	15.00
December. . .	8	4.00	.50	4.50	29.50	34.00
 Total	 558	 \$279.00	 \$21.00	 \$300.00	 \$173.50	 \$473.50

Table 2.

Months.	Chemical Collections.	Bact. Collections.	Total Collections.	Samples left at Office.	Lorenz Tests.	Total Examinations.
January . . .	63	102	165	23	27	215
February . . .	25	7	32	27	83	142
March	82	67	149	16	81	246
April	99	76	175	32	27	234
May	82	40	122	15	29	166
June	90	86	176	37	..	213
July	51	40	91	40	11	142
August	59	48	107	38	7	152
September . . .	113	62	175	30	..	205
October	74	85	154	47	5	211
November	97	82	179	20	24	223
December . . .	41	125	166	59	18	243
Total	876	820	1,696	384	312	2392

Table 3.

Months.	Chem. Notices.	Bact. Notices.	Sanitary Notices.	Total Notices.	Infections.	Infected Samples.
January	7	14	5	26	114	3
February	5	1	5	11	44	0
March	8	5	9	22	38	1
April	8	5	14	27	80	0
May	15	4	8	27	25	0
June	10	8	9	27	30	0
July	14	5	12	31	41	0
August	5	5	14	24	30	0
September . . .	16	4	5	25	77	0
October	4	3	5	12	80	0
November	9	5	4	18	113	0
December	5	7	8	20	81	3
Total	106	66	98	270	753	7

City Inspection.

The department work in the city proper covers the supervision of milk at the receiving stations, the taking of temperatures, examination of utensils and wagons, examination of milk from dairies for visible dirt and bacteriological standard, inspection of milk plants and stores and the taking of samples of milk at railroad stations, teams, stores, lunch rooms and hotels.

Laboratory work consists of the analysis of milk, cream, butter, ice cream and vinegar, chemically and bacteriologically, with the exception of butter and vinegar (which are not examined bact.); the sterilization of all apparatus used in this work; notifying dealers of chemical, bacteriological and sanitary violations and the prosecution of court cases where advice and instruction do not accomplish the required results. Ice cream was added to the work of this department in July, when Chapter 743 of the Acts of 1913 became a law.

Nuisances dealt with by this department were as follows: Dirty milk containers, improper tasting of milk, milk containing foreign substance, improper use of milk bottles, dirty tanks, dirty chests, high temperature, unsanitary cow barn, tuberculous cattle, impure certified milk, and milk believed to be infected.

Recommendation.

Bottle Law.

I believe it would be of great advantage to the consumers of milk and this department if this board should enact a regulation prohibiting the sale of milk in any other way than in sealed containers, except in such places where milk is to be consumed upon the premises. This would relieve the department of a great deal of store inspection and the time could be given to advantage to country inspection.

I believe that there is practically no criminal adulteration in the city. Poor quality milk is due to carelessness and negligence and would be largely overcome by a regulation of this character. More time could be devoted, to advantage, to the cleanliness and method of handling at the source of supply.

Table 4.

	1909	1910	1911	1912	1913
MILK INSPECTION—CITY.					
Samples of milk and cream for chemical analysis . . . . .	....	1,069	916	1,001	876
Number found below grade . . . . .	....	163	98	146	106
Samples of milk and cream for bacteriological analysis . . . . .	....	281	1,024	740	820
Number found above 500,000 bacteria per C.C. . . . .	....	52	62	102	66
Temperatures of milk and cream taken . . . . .	....	1,350	1,520	1,500	1,690
INSPECTIONS.					
Number of stores and depots handling milk . . . . .	....	588	575	559	480
Number of inspections made . . . . .	....	985	980	1,002	753
Number of re-inspections made . . . . .	....	25	125	120	687
Number found contrary to regulations . . . . .	....	25	123	118	98
Average number of inspections per store . . . . .	....	....	....	....	3
LICENSES.					
Number of licenses for wagons issued . . . . .	....	109	105	98	78
Number of licenses for stores issued . . . . .	....	472	470	461	480
Number of licenses refused . . . . .	....	....	1	2	2
Number of licenses revoked . . . . .	....	....	2	1	0
LEGAL CASES.					
Suits instituted	4	22	10	9	7
Convictions	4	20	9	8	6
Pending	0	0	0	0	0
Fines imposed	\$40	\$145	\$125	\$100	\$62
MISCELLANEOUS MILK DATA.					
Total daily supply (gals.) . . . . .	....	5,707	5,800	6,000	6,200
Percent of milk pasteurized . . . . .	....	40	44	44	56
Average price of milk, winter	8	9	9	9	9
Average price of milk, summer	7	8	8	8	8
Letters or orders sent. (See sanitary notices.)					

Country Inspections.**Dairies.**

The inspection of dairies has been principally accomplished by laboratory methods. Occasionally it has been necessary to visit dairies and make suggestions as to desired changes.

By the Lorenz method the milk from each dairy is examined for *visible dirt*; dairies that cannot be examined in this manner, because a strainer has been in use at the farm, are examined bacteriologically and notices are sent, when there is a variation from our requirements.

A milk may be free from *visible dirt* and yet have a *high bacteriological* count if not properly cooled when shipped and stored.

By straining out the dirt you are simply resorting to "washing filth." All the soluble portions which contain the germs (diseased or otherwise) remain in the milk waiting a favorable opportunity to multiply; i. e., when the milk becomes warm to anywhere above 50 degrees Fahrenheit.

Very few dairies have been scored by the United States score card because the inspector's time is devoted almost entirely to the city work, but I hope during the coming year to so arrange the work that a portion of each week will be given to this very necessary dairy inspection.

Only a few things are absolutely necessary, at the farm, to insure pure, clean milk;—cleanliness of animals and utensils and the person milking, a hooded milk pail (see cut) and proper iceing.



Sanitary Hooded Pail, \$1.50.

These things cost only a very small sum and once the habit is contracted it will stay with a man the balance of his life.

There have been nine cases of watered milk traced to the farm during 1913. In one instance the case was turned over to the State authorities and one other case to the federal authorities and the balance were handled by this department.

Infected Milk.

On February 4 and 5, four cases of typhoid fever were reported to this board of health, and upon investigation it was found that all of these patients obtained their milk from a Mr. X. In company with Dr. F. L. Morse, a visit was immediately made to this farm and samples of blood taken from each person who came in contact with the milk.

On examination the same afternoon one showed a positive Widal reaction.

The method of washing bottles was found to be imperfect and the following steps were immediately taken to prevent a further spread of the infection:—

1. The dealer was instructed to boil all cans, pails, bottles and other utensils used in the production and distribution of milk.

2. To pasteurize all milk before delivery the following morning.

3. To isolate the man who responded positively to the Widal reaction, to prevent his coming in contact with the milk, or utensils in any way.

On account of the ineffective apparatus at hand it was found necessary to install a steam boiler in order to carry out the first two requirements; accordingly, *that day*, a boiler was obtained and the milking utensils and bottles thoroughly treated with live steam and the milk pasteurized in the following manner:—

The milk in eight and one-half quart cans was placed in a wooden sink, two by six feet, containing water, and steam forced into it until a temperature of 145 degrees Fahrenheit was reached. The milk was held at this temperature for twenty minutes and constantly stirred, after which it was cooled quickly, bottled and stored for delivery the next day.

The State Board of Health commented favorably on this method in their February report and commended this board upon the promptness and efficiency with which this epidemic was handled. The cases diminished, the last one being ill on February 15, ten days after these measures were instituted and corresponding to the incubation period of the disease. Cambridge and Arlington also suffered at this time, there being forty-four cases in Cambridge with eight deaths; four cases in Arlington with no deaths; thirteen cases in Somerville with one death, a total of sixty-one cases with nine deaths.

Table 5.—Infantile Mortality.

Year.	Births.	Deaths under 1 year, all diseases.	Deaths due to enteric diseases.	Per cent. of deaths from Entero-Colitis under one year of age compared with births.
1909	1582	162	58	3.6
1910	1558	175	54	3.4
1911	1618	166	48	2.9
1912	1839	142	45	2.4
1913	Birth returns incomplete	166	45	...

It will be seen by consulting Table No. 5, that for the past four years the birth rate has been steadily *increasing*. The deaths of children under one year of age have been about the same in number but when compared with the births show a smaller percentage each year, while the percentage of deaths from entero-colitis, compared with births has decreased thirty-three and one-third per cent.

I believe this to be a really remarkable showing. Recent research work has shown that the *rural* death rate is much higher than that of the city and since 1909 the cities have been reducing their death rate very rapidly while the rural death rate remains about the same, showing that the *vigorous protective measures* adopted in the large cities are *producing results*. The value of *pure milk* cannot be overestimated and no amount of care by the consumer can entirely offset the dangers of polluted milk. On the other hand the cleanest milk will speedily become unfit for the infant if improperly handled in the home.

It would be of great assistance to this department if some means could be devised to get the physicians to report all cases of entero-colitis.

At present we are obliged to rely on the death returns for data of enteric diseases in children and only the fatal cases come to our attention. If the physicians would report each case they are called to attend the department could determine much more quickly an epidemic from any particular source of supply.

A postal card addressed to the Board of Health stating the name, address, age of patient and source of milk supply would be all that is necessary.

Table 6.—Results of Bacteriological Examinations of Milk, 1913.

Bacteria per cubic centimeter.	Samples from wagons.		Samples from stores.		Samples from dairies.	
	No.	Per cent.	No.	Per cent.	No.	Per cent.
Below 10,000	35	9.5	0	0.	101	25.2
10,000 to 20,000	71	19.1	0	0.	40	10.
20,000 to 50,000	78	21.2	0	0.	79	19.7
50,000 to 100,000	110	29.7	0	0.	130	32.5
100,000 to 500,000	61	16.4	10	25.	29	7.3
Total under 500,000	355	95.9	10	25.	379	94.7
500,000 to 1,000,000	10	2.7	10	25.	14	3.5
1,000,000 to 5,000,000	3	.8	15	37.5	7	1.8
5,000,000 to 10,000,000	0	0.	2	5.	0	0.
Above 10,000,000	2	.6	3	7.5	0	0.
Total above 500,000	15	4.1	30	75.	21	5.3
Total of samples	370	100.	40	100.	400	100.

Store samples were all from dip tanks.

Legislation.

July 6, 1913, Chapter 743, known as "An Act Relative to the Manufacture and Sale of Ice Cream," became a law. This act provides that all ice cream must contain at least seven per cent. of milk fat and the enforcement is left with the Department of Milk Inspection.

July 10, 1913, Chapter 761, known as "An Act to Safeguard the Public Health Against Unclean Milk Containers and Appliances used in the Treatment and Mixing of Milk," was passed.

This act provides that all milk utensils shall be thoroughly cleaned and free from foreign deposits upon the inside. A penalty of fifty dollars is provided for violations.

June 26, 1913, Chapter 96, known as "A Resolve to provide

for the encouragement of dairying and the production of milk and dairy products of superior quality," was passed. This resolve provides that the State Board of Agriculture shall offer prizes for the *best kept stables*, *best quality of milk*, and *lowest bacteria counts*, or as said board sees fit. An annual appropriation of \$5,000 was provided to cover prizes and traveling expenses.

As a result of this measure on December 2, 3 and 4, 1913, at Springfield, Mass., a milk show was held. This was the largest show of the kind ever held in the world. Cash, ribbons and medals were given as prizes for clean milk, as determined by the Lorenz method, low bacteria counts and perfection from a chemical standpoint. A prize was also given for the best screened stable.

It is a significant fact that both first prizes were won by women.

These measures were the best of a large number that were presented to the legislature of 1913. During the coming year there will doubtless be a still larger number presented for consideration, and I trust that all persons and organizations will bear in mind the fact that what is most needed is not *additional laws* governing the production, transportation and sale of milk but *co-operation* between the various departments who now have the supervision of the matter, i. e., federal, state and municipal. No condition can arise that cannot be controlled by these three departments if given sufficient means to carry on their work. When appropriations are made sufficiently large to enable the various departments to carry on the work assigned them, then satisfactory results will be obtained. The federal authorities have the power to control all interstate problems. State authorities can compel the sanitary production and enforce standards throughout the commonwealth and local authorities can handle any and all conditions within their borders.

Money and men are needed and multiplicity of laws will lead only to confusion and misdirected effort.

Respectfully submitted,

HERBERT E. BOWMAN,
Inspector of Milk and Vinegar.

SUPPORT OF POOR DEPARTMENT.

Board of Overseers of the Poor.

HENRY F. CURTIS, M. D., President,
ALBERT W. EDMANDS, Vice-President.
PHILIP KOEN.

Committees.

ON FINANCE, INVESTIGATION AND RELIEF, AND CITY HOME—Dr. Curtis,
Mr. Edmands and Mr. Koen.

Secretary.

CORA F. LEWIS.

Clerk.

JEANNETTE M. HUTCHINS.

General Agent.

CHARLES C. FOLSOM.

City Physician.

C. CLARKE TOWLE, M. D.

Warden and Matron, City Home.

Mr. and Mrs. J. FOSTER COLQUHOUN.

Office.

City Hall Annex, Highland Avenue.

REPORT OF OVERSEERS OF THE POOR.

Somerville, Mass., December 31, 1913.

To His Honor, the Mayor, and the Board of Aldermen of the City of Somerville:—

Gentlemen,—Herewith the Board of Overseers of the Poor presents its report for the year 1913, which includes the reports of the agent and the warden of the city home.

Our one trouble for the past year, and what is likely to continue, is to interpret the act of the Legislature relating to "aiding mothers with dependent children." While heretofore aid from this department has disqualified recipients from acquiring a residence in our city this act simply annuls this provision and distinctly from its passage places such persons outside the accepted requirements of this board.

This act is so vague in its wording as to make possible a large additional expense for this department.

We trust that further legislation will make it more acceptable. If this is not done, we believe it should be placed outside the work of this department.

The matter of asking a discount on our small two-dollar orders, from dealers over the city, has been discussed many times by this board. We have interviewed all parties to find, if possible, the practical working of this plan. Our judgment is, that it would benefit the city less than it would harm the recipients of our city's charity. What has been said many times of this department we think holds good for the past year. The work has been carefully and faithfully done. All needy ones, so far as we have been able to learn, have received sympathetic and charitable aid.

The work at the home has been, as usual, acceptable, and the hospital has proved its need and usefulness in the treatment of an unusual number of serious cases. But for the unavoidable loss of some of our stock, and rather poor returns from celery, the profits from the farm would have excelled former years. We would again call attention to the need of an office for the warden and some kind of reception room for visitors to the inmates.

Very respectfully,

HENRY F. CURTIS,	} Overseers
A. W. EDMANDS,	
PHILIP KOEN,	
	of the
	Poor.

REPORT OF THE GENERAL AGENT.

Somerville, Mass., December 31, 1913.

To the Overseers of the Poor, Somerville, Mass.:—

Gentlemen,—As we look back over the past year, we find that as a whole it has been a very busy one. The most important event for us was the passing by the Legislature of chapter 763 entitled, "An act to provide for suitably aiding mothers with dependent children under fourteen years of age." This has increased our work in the office to quite an extent and I find that the action of the board in supplying a permanent, instead of a temporary, clerk was a very wise and fortunate move, as the work for the board of health has increased and the bookkeeping at the city home of course takes some of her time. The clerk selected has proved herself very efficient and a great help to the agent and warden.

There seems to have been an impression throughout this city, as well as all through the state, that the above mentioned act provided a pension for all widows regardless of their condition or income or fitness to bring up or care for their children, but this is not the case. We have to certify on each notice sent to the state (and we are obliged to send a notice whether they are city or state cases) that the mother is fit to bring up her children and that the other members of the household and the surroundings of the home are such as to make for good character; we also have to certify as to the resources of the family, how many children over fourteen who are able to work and how much they earn, how much the mother can earn without neglecting her family. All of these and many other facts have to be ascertained and certified to in each case. The state visitor then makes a visit to the family and investigates and in some cases does not agree with our findings, but we are generally able to harmonize our differences and agree although we find it is very easy for the last visitor to find fault with whatever the first one does or suggests. After some experience we are led to believe that it will take more than a few weeks or even months to change the way of living, the location of the homes and the habits, etc., of any people, whether they be rich or poor—but if we are patient and keep at our work, wonders can be performed in time, provided we supply the necessary aid to change the conditions. This law was passed and went into effect after our appropriations were made, so of course we were obliged to go to the mayor and aldermen for an additional appropriation to meet the demands made upon us. Applications have been made to us by about fifty different widows or deserted women for aid under this law, but for various reasons we have been obliged to refuse quite a number of them. Some have moved away, but we are aiding at the close of the year about forty families under this law, twelve of them are settled in other cities or towns, and six are families having no settle-

ment in the commonwealth. We send bills to the state for the full amounts in the latter cases, and for the out-of-town cases bills for two-thirds are sent to the place of settlement and one-third to the state. We also send bills to the state under this law for one-third of the amount agreed upon between the city and the state in our city cases.

During the year we distributed about 100 tons of coal amounting to \$862.67, food \$6,520.35, cash paid out \$1,308.46. We caused to be collected and turned over to the Somerville Hospital \$2,079.27, \$3,904.15 was paid other cities and towns. For assistance in burials \$173.00, medicine \$230.02, and for other things as seemed necessary amounting in all to \$21,827.73.

Business has been fairly good and very few men, comparatively, have been out of work.

Once more I wish to thank the members of the board for their kindness and willingness to help and advise at all times. Attached please find tables to show the work in detail.

Very respectfully,

C. C. FOLSOM,

General Agent.

Table No. 1.**FULL SUPPORT (During the Year.)**

In city home (men 43, women 31)	74
In city home, December 31, 1913 (men 21, women 18)	39
In private families	3
In hospitals for the sick in other towns, cities, and state	58
In care of state division minor wards (children)	8

Table No. 2.**PARTIAL SUPPORT (OUTDOOR RELIEF).**

Families	254
Persons aided (including hospital cases)	1,163
Burials	10
Permits to state infirmary	7
Average expense to the city for each (carriage for five)	\$3.28

Table No. 3.**AID UNDER 1913 LAW,**

Number of applications from widows or deserted women	55
Number of families aided at close of year	39
Number of children	149
Amount earned by mothers and children over fourteen, each week	\$189 00
Or average of \$1.90 per week each family.	
Amount allowed each family, from \$2.00 to \$9.00 per week	
Number of out of town families	12
Number having no settlement	6

Many of the above families were aided previous to September under the old law.

Table No. 4.
REIMBURSEMENTS.

Commonwealth of Massachusetts	\$1,275 88
City of Boston	1,108 76
“ “ Brockton	41 71
“ “ Cambridge	674 53
“ “ Everett	201 74
“ “ Haverhill	21 43
“ “ Lowell	40 50
“ “ Lynn	28 57
“ “ Malden	41 50
“ “ Medford	236 99
“ “ New Bedford	14 00
“ “ Newton	161 56
“ “ Quincy	17 14
“ “ Salem	55 71
“ “ Waltham	12 00
“ “ Woburn	101 53
Town of Arlington	78 20
“ “ Burlington	78 20
“ “ Clinton	4 29
“ “ Concord	8 25
“ “ Gardner	25 71
“ “ Hanover	93 86
“ “ Lexington	45 71
“ “ Natick	17 14
“ “ Provincetown	9 25
“ “ Saugus	13 00
“ “ Warren	10 00
“ “ Westminster	21 43
“ “ Weston	1 50
“ “ Whitman	136 75
“ “ Winthrop	15 71
Relatives	36 15
Soldier's relief (for medicine)	99 85
Money not called for	4 43
	\$4,701 92

Table No. 5.

SOMERVILLE HOSPITAL (PATIENTS ON CITY BEDS).

Patients having settlement in Somerville	115
Patients having settlement in other cities or towns	49
Patients having no settlement (chargeable to state)	88
Total number of patients sent to hospital	252
Money paid hospital by the city for patients settled in Somerville	\$5,000.00
Amount reimbursed to the city and paid to the hospital for patients not settled in Somerville	2,079.27
Total paid to the hospital	\$7,079.27

Table No. 6.

POPULATION AND GROSS EXPENDITURES, 1883 TO 1913, INCLUSIVE.

Year.	Population (Estimated).	Expenditures.
1883 . . .	27,000	\$15,959.80
1884 . . .	28,000	17,272.52
1885 . . .	*29,992	16,430.32
1886 . . .	32,000	14,341.83
1887 . . .	34,000	13,430.89
1888 . . .	36,000	13,375.98
1889 . . .	39,000	14,610.92
1890 . . .	*40,117	15,261.14
1891 . . .	43,000	15,980.49
1892 . . .	46,000	17,015.30
1893 . . .	48,000	17,799.58
1894 . . .	50,000	19,733.13
1895 . . .	*52,200	20,755.46
1896 . . .	54,000	21,999.79
1897 . . .	56,000	25,681.47
1898 . . .	57,500	28,522.21
1899 . . .	60,000	28,924.39
1900 . . .	*61,643	Miscellaneous, \$23,697.62 } City Home, 5,528.83 } 29,226.45
1901 . . .	62,500	Miscellaneous, \$29,171.15 } City Home, 6,622.43 } 35,793.58
1902 . . .	63,500	Miscellaneous, \$28,667.04 } City Home, 7,396.64 } 36,063.68
1903 . . .	65,500	Miscellaneous, \$30,470.20 } City Home, 7,548.39 } 38,018.59
1904 . . .	69,500	Miscellaneous, \$20,476.54 } City Home, 6,563.11 } 27,039.65
1905 . . .	*69,272	Miscellaneous, \$17,527.88 } City Home, 7,474.36 } 25,002.24
1906 . . .	72,000	Miscellaneous, \$18,237.53 } City Home, 6,806.79 } 25,044.32
1907 . . .	74,000	Miscellaneous, \$17,852.20 } City Home, 7,001.23 } 24,853.43
1908 . . .	75,500	Miscellaneous, \$17,955.34 } City Home, 6,875.56 } 24,830.90
1909 . . .	75,500	Miscellaneous, \$16,843.17 } City Home, 7,562.83 } 24,406.00
1910 . . .	*77,236	Miscellaneous, \$16,110.42 } City Home, 7,695.89 } 23,806.31
1911 . . .	78,000	Miscellaneous, \$16,327.56 } City Home, 7,842.03 } 24,169.59
1912 . . .	81,000	Miscellaneous, \$19,201.33 } City Home, 8,998.97 } 28,200.30
1913 . . .	82,000	Miscellaneous, \$21,827.73 } City Home, 10,945.95 } 32,773.68

*Census

Overseers of the Poor of Somerville.**SINCE THE REORGANIZATION IN 1885.**

† Hon. Mark F. Burns, chairman ex-officio	1885	1888 inclusive
† Colonel Herbert E. Hill	1885	1889 “
† Charles S. Lincoln, Esq., chairman	1885	1887 “
Hon. Edward Glines	1885	1887 “
† Charles G. Brett (president 1888-1892)	1885	April 1893 “
Edward B. West (president May, 1894 to February, 1912	1888	1912 “
† Daniel C. Stillson	1888	April 1892 “
† Hon. Charles G. Pope, chairman ex-officio	1889	1891 “
Nathan H. Reed (president 1893 to April, 1894)	1890	April 1894 “
† Hon. William H. Hodgkins, chairman ex-officio	1892	1895 “
James G. Hinckley May	1892	1894 “
Albert W. Edmands May	1893	to date* “
Herbert E. Merrill May	1894	1909 “
† Ezra D. Souther	1895	Feb. 1898 (Died)
Hon. Albion A. Perry, chairman ex-officio, ...	1896	1898 inclusive
James H. Butler March	1898	1899 “
Hon. George O. Proctor, chairman ex-officio	1899	
Henry F. Curtis, M. D.	1910	to date* “
Philip Koen	1912	to date* “

* Present member.

† Deceased.

Table No. 8.**RECAPITULATION (MISCELLANEOUS).**

Appropriation and transfers	\$21,827 73	
Reimbursements	4,701 92	
Total receipts		\$26,529 65
Total expenditures		\$21,827 73
Net expenditures		\$17,125 81

REPORT OF WARDEN OF CITY HOME.

City Home, January 1, 1914.

To the Overseers of the Poor, Somerville, Mass.:—

Gentlemen,—I submit the following as the report of the warden of the city home for the year ending December 31, 1913:—

Table No. 1.
REIMBURSEMENTS.

Farm produce sold	4,925 11	
Board of sundry persons	601 04	
		\$5,526 15

Table No. 2.
LIVING EXPENSES.

Salaries and wages	\$3,915 76	
Groceries	1,967 55	
Provisions	1,027 65	
Dry goods	231 26	
Boots and shoes	137 29	
Grain	461 75	
Hay	421 60	
Seeds	94 84	
House furnishings	12 83	
Kitchen furnishings	73 77	
Sundries	257 95	
Cash paid by warden, car fares, for warden, inmates and laborers	48 25	
Medicine	172 04	
Shoeing horses	62 95	
Live stock	100 00	
Three horses	650 00	
Repairs on sash	55 00	
Repairs on wagons	11 45	
Telephone	46 11	
Farm sundries	388 51	
Pig account	536 45	
Ice	45 35	
		\$10,718 36
Credits:—		
Farm produce	\$4,925 11	
Board of sundry persons	601 04	
		\$5,526 15
Net living expenses		\$5,192 21

Table No. 3.

Number of weeks' board of inmates . . .	1,992 2-7
Number of males admitted during 1913 . .	23
Number of females admitted during 1913 . .	18
Number of males discharged during 1913 . .	14
Number of females discharged during 1913, .	10
Number of males supported during 1913 . .	41
Number of females supported during 1913 . .	32
Number of males died during 1913 . . .	8
Number of females died during 1913 . . .	5
Number of inmates in home December 31, 1913	39

City Home Hospital.

Number of weeks' board	276 5-7
Number of inmates admitted	31
Number of patients in hospital December 31, 1913	-

Table No. 4.**FARM ACCOUNT.****REIMBURSEMENTS.**

Farm produce sold	\$4,925 11
Produce used at city home	300 00
Milk used at city home	444 30
	\$5,669 41

EXPENSES.

Wages for help	\$1,356 73
Farm sundries	362 11
Pig account	556 95
Repairs on wagons and sash	66 45
Shoeing one horse	20 96
Feed for one horse	147 22
Feed for three cows	441 66
Seed and fertilizer	94 84
Live stock	100 00
Three horses	650 00
	\$3,796 92
Balance	
	\$1,872 49

Table No. 5.

Repairs on pig yards and green house	
Painting walls and general repairs	\$227 59
Living expenses	10,718 36
	\$10,945 95

Table No. 6.

Reimbursements	\$5,526 15
Net expenditures	5,419 80
Total expenditures	\$10,945 95
Appropriation	10,500 00
Overdraw	\$445 95

Owing to the loss of one horse through sickness and two horses disposed of on account of old age, the balance in favor of the farm has been reduced this year by the amount of \$650 paid for three new horses to take the place of those disposed of.

Respectfully submitted,

J. FOSTER COLQUHOUN,

Warden.

REPORT OF THE CITY PHYSICIAN.

OFFICE OF THE CITY PHYSICIAN,
Somerville, January 1, 1914.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—Services rendered for the city during the year 1913 are summarized in the following abstract:—

Office consultations and treatments	642
Total outside visits	1,242
Confinements	11
Vaccinations	92
Visits at city home	88
Attended at police station	44
Examinations:—	
For legal department	24
For highway department	15
For fire department	3
For water department	2
For school department	2

Respectfully submitted,

C. CLARKE TOWLE,
City Physician.

REPORT OF THE CITY ENGINEER.

OFFICE OF THE CITY ENGINEER,
CITY HALL, SOMERVILLE, JANUARY 22, 1914. }

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—In accordance with the provisions of the city charter, the following report of the work done and expense incurred for the year ending December 31, 1913, by the Engineering department and appropriations under my charge and supervision, including the accounts of City Engineer, Grade Crossings, Sewers Construction, Sewers Maintenance, Public Grounds, Parks and Playgrounds and other public works, is herewith presented.

ENGINEERING DEPARTMENT.

City Engineer Account.

Statement of Expenses, 1913.

Salary of City Engineer	\$3,000 00	
Salaries of assistants (see itemized statement following)	7,296 34	
Stakes, tools, and general supplies (outside work)	166 71	
Draughting materials and office supplies (inside work)	145 36	
Car fares and miscellaneous expenses (assistants)	185 88	
Maintenance of automobile and motor cycle	637 73	
Setting stone bounds	12 35	
Telephone, postage and expressing	90 98	
Incidentals	32 00	
Total debit		\$11,567 35
CREDIT.		
Appropriation	\$11,500 00	
Amount received for making acceptance plans, transferred from Revenue account	50 00	
Amount received from other accounts, services rendered	17 57	
Total credit		\$11,567 57
Balance unexpended		\$ 0 22

Classification of Expenses, Assistants' Salaries.

Sewers,—comprising surveys, estimates, profiles, lines, grades, titles, plans, assessments, and all engineering work relating to sewers	\$1,316 10
Highways,—comprising plans, estimates, titles, profiles, lines and grades, inspection of paving, and all other engineering relating to the department	912 30
Sidewalks,—comprising profiles, lines, grades, measurements, titles, costs, and assessments	830 40
Bridges and Grade Crossings,—comprising surveys, plans, profiles, estimates, lines and grades, etc.	171 20
Water Works,—comprising lines, grades, locations of mains, gates, hydrants and services, and other matters relating to the department	530 50
Public Grounds and Parks,—comprising surveys, plans, estimates, profiles and grades, including laying out of parks and playgrounds and boulevards	430 30
Public Buildings,—comprising surveys, estimates, lines and grades, and other work relating to construction and laying out of grounds	95 10
Street Numbering,—comprising locations of buildings, plans, and affixing street numbers on houses	153 40
Street Lines and Grades.—comprising establishing of lines, grades, and miscellaneous data given parties for building and grading	270 50
City Survey,—comprising establishing of street lines, acceptance plans, and miscellaneous survey work for city map, etc.	730 30
Middlesex Registry,—comprising copying of plans, and abstracts from deeds and examination of titles filed at East Cambridge, also tracings of street acceptance and sewer taking plans filed for record, ...	190 20
Private Corporations, Railway, Telephone, Electric Light and Gas Light Companies,—comprising grades, plans, profiles, and office notes, locations of poles and conduits	135 10
Stone Bounds,—locating and setting	71 40
Office Work,—comprising records of all locations, indexing, typewriting, bookkeeping, calculations, reports, and general draughting	810 50
Miscellaneous Work,—comprising preliminary surveys, designs, sketches, etc., relating to various schemes for different committees	140 20
Vacations, Holidays, and Sickness	508 84
Total	\$7,296 34

Office Records and Value of Instruments.

Number of survey note-books, sewer permit books, deed books, calculation books and record books,—three hundred and forty.

Number of plans, including sewers, highways, parks, house lots, etc.,—seven thousand and fifty.

Value of field instruments, tools, and office instruments, \$2,500 00

The number of assistants employed during the year on engineering work varied from seven to ten.

The total cost of maintaining the Engineering department

(City Engineer account) since it was established (1872-1913, both years inclusive) has amounted to \$319,791.00.

General Work. Under the title of Engineering Department a varied line of city work is carried on each year, including the designing and superintending of the construction and maintenance of sewers, parks, playgrounds, boulevards, bridges, and other public works as may be authorized; the making of such surveys, plans, profiles, estimates, descriptions of property, specifications and contracts for work as the mayor, board of aldermen, or any committee or department may require; the custody of all plans and data relating to the laying out, widening or discontinuing of streets, the computing of all sewers, sidewalk and street betterment assessments, and the recording and indexing of all work under the control of the city engineer.

The city ordinances require that the city engineer must be consulted on all work where the advice of a civil engineer would be of service; and no structure of any kind can be placed upon, beneath, or above any street by any department of the city, corporation, or individual, until a plan is furnished showing the location and approved by him.

During the year the department made plans and established grades for the acceptance, under the betterment act, of twenty-two new public streets, a total length of 8,785 feet (1 2-3 miles).

Plans have been made of private streets for acceptance as public streets during the year, as ordered, but not as yet made public, and there are plans for acceptance of eleven other private streets, previously made, on file in the office that for various reasons are still unaccepted as public ways.

Stone bounds have been reset in Portland cement concrete at a number of street intersections and angles to define and preserve the true lines of public streets, and this work should be continued as much as possible each year. These bounds are also of great convenience in establishing permanent "Bench Marks" throughout the city for giving grades.

On account of the appropriation but four new bounds were set in 1913, three on Wesley Park, westerly side, at end of street; one on easterly side of Springfield street at Somerville-Cambridge boundary line.

In the report of 1907 a table was compiled from old reports, maps, and office notes, showing the location of stone bounds, as set, for defining street lines and angles; the year when set, and whether existing or removed at the present time, from 1860 to 1907, inclusive, and in the following reports a list of bounds set during each year. There are at the present time 576 stone bounds set in the city for defining street lines.

The total length of public streets in the city is 79.662 miles, and private streets 19.40 miles. (See table in this report for location, width, length, etc.)

Streets Accepted as Public Highways in 1913, under the Betterment Act.

NAME OF STREET.	WARD.	FROM	TO	Width in Feet.	Length in Feet.	Date of Acceptance.
Aberdeen rd. . .	6	Highland ave. .	Cedar st. . . .	40	449	Dec. 31
Belknap st. . .	7	Broadway . . .	Hamilton rd. .	40	449	Dec. 31
Belmont pl. . .	8	Belmont st. . .	Easterly . . .	25	177	Dec. 31
Chester ave. . .	4	Cross st. . . .	{ N'y to angle inst.	20	451	Dec. 31
Clark st. . . .	2	Newton st. . .	Lincoln Parkway	35	552	Dec. 31
Clyde st. . . .	5	Cedar st. . . .	E. of Murdock st.	30	664	Dec. 31
Crescent st. . .	1	Pearl st. . . .	Hadley st. . . .	30	174	Sept. 20
Derby st. . . .	4	Wheatland st. .	Grant st. . . .	40	200	Dec. 31
Flint ave. . . .	4	Flint st. . . .	Northerly . . .	40	202	Dec. 31
Garfield ave. . .	4	Broadway . . .	Blakeley ave. .	40	447	Dec. 31
Greene st. . . .	3	End of accept. st.	Easterly	40	1	Sept. 20
Harold st. . . .	2	Dimick st. . .	Marion st. . .	40	316	Dec. 31
Main st.	5	{ S'wly sidewalk widened . . .	Medford lines'ely			Sept. 20
Meacham st. . .	5	Mt. Vernon ave.	Medford line . .	40	777	Dec. 31
Pearl st. pl. . .	4	Pearl st. . . .	Northerly . . .	20	166	Dec. 31
Pearson rd. . .	7	Warner st. . .	Dearborn rd. .	40	1,089	Dec. 31
Sartwell ave. . .	6	Cedar st. . . .	Cherry st. . . .	35	427	Dec. 31
Taylor st. . . .	4	Sydney st. . .	Mystic ave. . .	40	309	Dec. 31
Teele ave. . . .	7	Packard ave. .	Curtis st. . . .	40	685	Dec. 31
Vine st.	2	Somerville ave. .	Fitchburg R. R.	40	540	Dec. 31
Wilson ave. . .	6	Broadway . . .	{ B. & M. R. R., So. div. . . .	20	307	Dec. 31
Woodstock st. .	7	Victoria st. . .	Alewife Brook .	40 to 32	403	June 13
Total . . . . .	..	. . . . .	(1.664 miles)	.....	8,785	.....

Length of Public Streets in Each Ward.

	Miles.
Ward one	9.745
Ward two	8.936
Ward three	7.560
Ward four	9.797
Ward five	12.100
Ward six	13.150
Ward seven	18.374

Total length of public streets in the city . 79.662

A number of street names have been changed and plans made showing a re-numbering of the buildings, and all old numbering plans revised, new houses plotted, and numbers assigned.

Some of the old main thoroughfares should be re-numbered throughout their entire length, so as to eliminate half numbers and letters now being used, as many of these old streets have outgrown their original numbering.

There are many streets, avenues, courts and places in the city of the same or very similar name, which should be changed to prevent the confusion and inconvenience now existing.

Water street, between South street and the freight yard on the Fitchburg division of the Boston and Maine railroad, a

length of 372 feet, has been paved with granite blocks, averaging four and one-half inches in depth, grouted with pebbles and cement, laid with a sand and cement cushion one inch in thickness, on a Portland cement concrete base five inches in thickness.

This pavement was laid by contract at the following cost:—

James H. Fannon, Somerville, contractor:—

Laying 849 square yards granite block paving, concrete base	\$2,462 10
Extra work, relaying freight track	80 68

Total cost of work	\$2,542 78
------------------------------	------------

Average cost, \$2.90 per square yard for cement-grouted granite block pavement laid on concrete base, including all incidental work.

The easterly side of Elm street between Oak square and Cutter square (excepting the area used by the street railway), a length of 3,540 feet, has been constructed with a Portland cement concrete base, five inches in thickness, and a bituminous wearing surface two and one-half inches in thickness; the excavation, concrete base and granite block brow-stone being done by contract, and the wearing surface by the city's highway department.

The street railway tracks were relaid by the company at their expense, the old granite block pavement between the tracks being grouted with Portland cement.

This work completed cost as follows:—

James H. Fannon, Somerville, contractor:—

Excavation and laying 4,890 square yards concrete base	\$4,397 83
Laying 3,540 linear feet granite block brow-stone	592 97
Extra work, resetting curbstone, etc.	116 24

Cost of work done by contract	\$5,107 04
---	------------

City, Highway Department (day labor):—

Constructing 4,900 square yards bituminous wearing surface:—	
Labor, teaming, rolling	990 58
Stone used (trap rock)	1,286 57
"Tarvia" used	972 57

	\$3,249 72
--	------------

Total cost of work	\$8,356 76
------------------------------	------------

Average cost, \$1.70 per square yard for street construction with bituminous wearing surface laid on a concrete base (where car tracks exist).

Tufts street between Washington street and Cross street, a length of 980 feet, has been constructed with a bituminous wearing surface one-half inch in thickness on a Portland cement concrete base five inches in thickness, at the following cost:—

James H. Fannon, Somerville, contractor:—

Excavation and laying 2,933 square yards	
concrete base	\$2,463 72
Extra work re-laying crossing	60 33

Cost of work done by contract	2,524 05
---	----------

City, Highway Department (day labor):—

Constructing 2,960 square yard bitu-	
mimous wearing surface:—	
Labor, teaming and rolling	291 56
Stone used (trap-rock)	93 80
"Tarvia" used	79 85
Resetting curbstone	255 44

	\$720 65
--	----------

Total cost of work	\$3,244 70
------------------------------	------------

Average cost, \$1.10 per square yard for street construction with bituminous wearing surface laid on a concrete base.

Temple street between Broadway and Derby street, a length of about 990 feet, has been constructed with trap-rock, using "tarvia" for a binder, the work being done by the Highway department, day labor, at the following cost:—

Constructing 4,180 square yards pavement:—

Labor, teaming, rolling	\$2,021 08
Stone used (trap-rock)	1,528 19
"Tarvia" used	844 06

Total cost of work	\$4,393 33
------------------------------	------------

Average cost, \$1.05 per square yard for street construction with bituminous wearing surface (using old street material for sub-grade).

The total length of permanent paved streets in the city amounts to 10.9 miles.

The policy recently adopted of permanently constructing the city's main thoroughfares in preference to side streets has commenced to show good results.

In a few years' time, by the continuation of permanently constructing the remaining roadways, namely, on Broadway (Winter Hill to Arlington line) sections of Summer, Elm, Washington and Beacon streets, and some of the principal cross-town streets, the city will have main thoroughfares that will compare favorably with any city in the state.

Eight new streets have been constructed during the year, with a "tarviated" trap-rock surface, a length of 4,152 feet (0.79 mile) costing \$14,577.92, where betterment assessments have been levied on the abutting property amounting to \$7,135.40; the average cost of this construction being \$1.18 per square yard, which includes the cost of granite paved gutters.

One street has been constructed, "tarvia" being used as a binder, a length of 993 feet (0.19 mile) where no assessment was levied.

One street and part of another has been constructed with a concrete base and a bituminous wearing surface, a length of

2,749 feet, and one street paved with granite blocks on a concrete base, a length of 372 feet.

Five streets have been re-macadamized with a "tarviated" surface, a length of 3,102 feet (0.60 mile) and six streets repaired, a length of 5,753 feet (1.09 miles).

Land has been taken and the roadway widened on Main street at the Somerville-Medford boundary line, and the construction work should be continued on the southwesterly side of this street, its entire length, making a uniform width of roadway.

Many times in the past, streets—newly constructed or where an improved pavement is laid—are torn up and excavations made a short time after being built, when the changes should have been made considerably in advance of the new street construction work.

Previous notice of the city's intended street improvements should be given the various departments and interested private corporations and ample time allowed for making all extensions and repairs of underground work; and no permission should be granted to cut any newly constructed street, except for emergencies or under special conditions, where a sufficient sum of money is paid the city for damages.

Table of Street Construction.

	Square Yds.	Miles.
*Streets paved with granite blocks	99,815	4.12
Streets paved with Hassam pavement	36,802	1.80
Streets paved with asphalt	10,410	0.73
Streets paved with vitrified brick	13,564	0.64
Streets paved with bitulithic	14,689	0.88
Combination pavement (concrete base with bituminous top)	32,652	2.69
Streets macadamized ("tarvia" bound)		13.91
**Streets macadamized (water bound)		52.24
Streets graveled or unimproved		22.05
Total		99.06

*Also 31.9 miles (single track) electric railway paved with granite, asphalt, bitulithic.

**Includes 3.29 miles boulevard and 1.16 miles state highway.

Lines and grades have been given for setting 12,182 linear feet (2.307 miles) of new edgestone, and 1,005 square yards (0.231 mile) of new brick sidewalks, and 17,147 square yards (4.063 miles) of granolithic sidewalks have been laid, and measurements taken for computing assessments; 0.68 of a mile of edgestone has been reset, and 2,700 square yards of brick sidewalks relaid, also on private streets 1.615 miles of granolithic sidewalks have been laid by private parties.

In connection with setting edgestone, 3,907 square yards of new paved gutters have been laid, at an average cost of

Table Showing Sidewalks Constructed (not exceeding one-half cost assessed on abutters) in 1913.

STREET	Ward.	SIDE.	FROM	TO	WIDTH OF SIDEWALK IN FEET.	MATERIAL.					Total Cost.
						Gravel and Edge- stone. Lineal Feet.	BRICK. Lin. Feet.	Sq. Yards.	GRANOLITHIC. Lin. Feet.	Sq. Yards.	
Alston	1	Northeasterly . .	Shawmut place . .	Where not already laid . .	6.67	266.8					\$261.26
Beacon	6	Northeasterly . .	Railroad bridge . .	Near Sacramento street . .	11.00				1,361.8	1,557.1	2,174.42
Beacon	6	Southwesterly . .	Forest street . .	Near Beckwith circle . .	11.00				1,331.8	1,513.1	2,162.95
Beacon	2	Southwesterly . .	In front of estate Somerville Building Association . .		11.00				54.6	61.6	104.27
Broadway	1	Northeasterly . .	In front of estates Nos. 101 to 107, inclusive . .		15.00				80.3	120.0	162.00
Broadway	4	Southwesterly . .	In front of estates Nos. 274 to 290, inclusive . .		15.00				148.0	222.3	307.88
Broadway	5	Northeasterly . .	In front of estate No. 489 . .		15.00	Gran. 10.0, sod rem. width }			136.8	154.2	320.66
Broadway	5	Southwesterly . .	Magoun square . .	City road . .	15.00				336.8	429.5	760.69
Broadway	5 & 6	Southwesterly . .	City road . .	Railroad bridge . .	15.00 } 14.00 }	Gran. 8.0, sod rem. width }			1,264.8	1,228.0	2,081.95
Broadway	7	Northeasterly . .	In front of estates Nos. 1119-1135 . .		11.00				101.7	114.5	154.58
Calvin	2	Easterly . .	Washington street . .	Dimick street . .	5.00				420.7	204.5	280.58
Calvin	2	Westerly . .	Beacon street . .	Washington street . .	5.00 }				655.5	366.0	521.55
Conwell avenue . .	7	Both . .	Curtis street . .	North street . .	6.67 }	2,703.6					2,577.41
Crescent	1	Both . .	Pearl street . .	Southwesterly side Hadley st. .	6.67 }	244.3					226.82
Dearborn road . .	7	Both . .	Boston avenue . .	College avenue . .	8.33 }	809.5					854.12
Dimick	2	Both } includes cor. lots Concord avenue and Marion street	Concord avenue . .	Calvin street . .	6.67				1,756.1	1,097.3	1,690.87
Elm	7	Southwesterly . .	Beech street . .	Miller street . .	10.00	Gran. 6.5, sod rem. width }			495.8	385.0	1,113.12
Fremont	5	Both . .	Meacham street . .	Northeasterly . .	6.67	461.2					1,072.75
Garrison avenue . .	7	Both . .	Broadway . .	Ld. of City of Cambridge . .	6.67	952.3					872.57
Gilman terrace . .	4	Easterly . .	Pearl street . .	End of street . .	6.67	887.7					437.14
Glen	1	Easterly . .	Flint street . .	Oliver street . .	6.67				360.0	242.2	180.83
Grant	4	Northwesterly . .	Jaques street . .	Mystic avenue . .	6.67				181.0	122.9	798.10
Greene	3	Southwesterly . .	Laurel street . .	Southwesterly where not laid . .	6.67	103.8	103.8	70.4	750.5	508.3	169.13
Greene	3	Westerly & Northerly	Summer street . .	Laurel street . .	6.67	458.9			458.9	304.5	937.56
Heath	5	Northerly . .	Fenwick street . .	Bond street . .	7.50				209.4	150.5	281.37
Leland	2	Both . .	Washington street . .	Dane avenue . .	6.67	731.2					638.81
Liberty avenue . .	7	Easterly . .	Mallet street . .	Broadway . .	6.67				355.3	239.9	361.86
Lowell	6	Both . .	Summer street . .	Crown street . .	6.67	529.2					552.20
Medford	5	Northeasterly . .	Central street . .	Broadway . .	9.17		274.8	239.0	804.0	747.8	1,735.02
Moore	7	Southwesterly . .	Holland street . .	Mead street . .	6.67				689.6	466.8	742.82
Moreland	5	Westerly . .	Meacham street . .	No. 68 inclusive . .	6.67				131.2	86.3	135.32
Moreland	5	Easterly . .	Meacham street . .	Mystic avenue . .	6.67				758.9	511.3	748.50
Mystic avenue . .	1	Southwesterly . .	Union street . .	Charlestown line . .	10.00		356.2	382.4			465.49
Ossipee road . .	7	Both . .	Packard avenue . .	Curtis street . .	6.67				1,394.2	918.3	1,335.54
Pearson road . .	7	Westerly . .	Broadway . .	Warner street where not laid . .	6.67				327.8	235.4	350.05
Porter	6	Both . .	Elm street . .	Summer street where not laid . .	7.50	1,221.4					1,270.97
Powder House Blvd. .	7	Southwesterly . .	Powder House square . .	Northwesterly . .	8.00				509.4	500.3	962.46
Prichard avenue . .	6	Both . .	Boston avenue . .	Frederick avenue . .	6.67	970.5					925.21
Rossmore	2	Both . .	Somerville avenue . .	Washington street . .	6.67				1,066.5	723.0	1,069.32
Shawmut place . .	1	Both . .	Shawmut street . .	Alston street . .	5.00	354.6					445.32
Shawmut	1	Southwesterly . .	Central square . .	Washington street . .	6.67	346.9					309.58
South and Bedford . .	2	Estate No. 6 & 8 South	street and in front No. 11 . .	Bedford street . .	5.00	48.9	100.0	48.7			108.48
Summer	6	Northeasterly . .	Porter street . .	Belmont street . .	7.50				889.1	663.6	1,132.21
Summer	6	Southwesterly . .	Cherry street . .	Hancock street . .	7.50				211.4	162.7	329.16
Temple	5	Westerly . .	Jaques street . .	Opposite Derby street . .	11.00	272.5					448.15
Veazie	4	Southwesterly . .	Walnut street . .	Marshall street . .	5.83 }				609.6	378.1	515.47
Walnut	4	Northwesterly . .	Medford street . .	Pearl street . .	6.67 }	104.3	387.6	265.4			443.92
Walter	4	Both . .	Walnut street . .	End of street . .	6.67 }				817.6	670.6	1,029.06
Warner	7	Northwesterly . .	Bromfield road . .	Medford line . .	10.00	Gran. 6.80, sod rem. width }			311.6	247.0	442.39
Washington	2	Northerly . .	Union Building . .	Hawkins street . .	10.50 }				306.6	358.0	579.36
Water	2	Both . .	South street . .	Fitchburg R. R. (Boynton yd) . .	11.50 }						695.07
Winslow avenue . .	7	Both . .	College avenue . .	Clifton street . .	3 & 2 6.67 }	714.5			2,167.0	1,456.6	2,269.76
Total assessment, \$19,483.89.						12,182.1	1,222.4	1,005.9	21,454.3	17,147.2	\$40,546.08
Net cost to city, \$21,062.19.											

Amount of edgestone, brick, granolithic and tar in front of private estates
Totals

Gravel sidewalks, 1.335 miles. Brick sidewalks, 0.923 miles. Granolithic sidewalks, 6.491 miles.

11,038.0



\$2.25 per square yard, and a number of driveways and crossings have been constructed, all requiring lines, grades, and measurements.

(See tables for cost of new work, 1913, and total lengths of sidewalks constructed in the city to date.)

The average cost for the year has been as follows:—

For setting edgestone with gravel sidewalk .	\$1.02 per linear foot
Laying brick sidewalk, complete . . .	1.30 per square yard
Laying granolithic sidewalk, complete .	1.57 per square yard (city, day labor)
Laying granolithic sidewalk, complete . .	1.41 per square yard (contract)
And the cost of materials used, furnished by contract:—	
Edgestone (straight) delivered at work .	0.55 per linear foot
Edgestone (circle) delivered at work .	0.73 per linear foot
Bricks delivered at work	13.15 per M.
Cement (Portland) on cars	1.26 per barrel (net)
Sand and gravel on cars	.70 per cubic yard (average)
Trap-rock delivered on work	1.42 per ton (average)

In sections of the city where brick sidewalks have been laid many years, and must necessarily be relaid on account of deterioration and unevenness, granolithic should be substituted in the place of brick.

Miles of Edgestone, Gravel, Granolithic and Brick Sidewalks in Each Ward.

	Edgestone.	Gravel Sidewalk.	Brick Sidewalk.	Granolithic Sidewalk.
Ward one	17.845	4.715	12.115	2.193
Ward two	14.703	6.901	6.710	1.092
Ward three	14.085	1.559	11.572	0.954
Ward four	14.339	1.906	9.993	2.466
Ward five	21.121	6.297	12.194	2.629
Ward six	22.936	6.140	10.734	7.389
Ward seven	25.497	7.663	8.387	11.295
	130.526	35.181	71.705	28.018

A considerable quantity of stone still remains on the two parcels of ledge property owned by the city, situated in West Somerville, that can be quarried and used for the foundation of streets, and on sidewalk work, to the city's advantage. By using the stone from these two ledges and purchasing trap-rock, the city will have a sufficient supply of good road material for a number of years to come.

Lines and grades have been given for laying 6,651 linear feet of new city water mains, varying in size from two inches to twelve inches in diameter. Two hundred and thirty new house services, many gates, hydrants, water posts and blow-

offs have been located and recorded, sketches and plans made showing the same, and the large water-works wall maps corrected to date; also a large number of old water services where new meters were installed have been located and recorded.

A set of block plans should be made covering the entire city area from accurate surveys made during the past twenty-five years, and compared section by section with the deed dimensions and areas recorded in the assessors' department, and in this manner the correct areas of land determined.

This set of plans would show the area and dimensions of each lot, all houses and other buildings, sewers, catch basins, house drains, water services, gas mains, underground conduits for wires, street lights, street railway tracks, etc., and be of great value to many departments. Five of these sectional plans have already been made. A separate appropriation should be made for completing these plans.

Plans have been made and photographs taken where accidents have occurred on the city work, or where boundaries were in dispute, special plans and data prepared for the city solicitor's use in court cases and hearings.

All plans of estates in Somerville recorded at the Registry of Deeds, East Cambridge, including land court plans, have been copied, also titles examined, abstracts from deeds made for the purpose of assessments, and the proportional part of the cost of new work computed, and the schedules of assessments made out showing the property owners. Copies have been made of all city plans where land has been taken for highways or sewers, and these have been filed and recorded at the Registry, East Cambridge, as required by law.

Plans have been made by the various companies and corporations, and filed in the city engineer's office, showing the locations of gas mains, poles, tracks, and conduits in this city, which have been granted by the board of aldermen during the year; and the work of placing overhead wires in conduits underground and removing all poles from the streets should be extended as rapidly as possible.

At the present time, there are underground in the city's streets 16.2 miles of telephone conduits, 7.504 miles of electric light conduits, 1.4 miles of electric railway conduits, and about 6.8 miles of underground conduits used for the city's wires.

The Cambridge and Charlestown gas companies have extended their mains in the city's streets 3.84 miles the past year.

Heavy explosions have occurred in the city's streets from underground conduits, owned by private corporations. The city ordinances should be so changed that in the future all underground work constructed by these companies should be rigidly inspected by a competent man employed by the city, so as to eliminate as far as possible faulty construction.

The Boston Elevated railway has made extensive repairs in its roadbed in this city during the past year, replacing the old tracks with new and heavier rails, filling the space between the ties with Portland cement concrete, and grouting the granite block pavement with cement in sections of Elm street and Washington street.

Where double car tracks have been laid in streets, leaving narrow roadways on either side, it is impossible to maintain a macadam surface, even at a heavy expense yearly, and these streets should be permanently paved with a suitable pavement, adapted to the character of the surroundings and amount of traffic and conditions encountered.

There are 31.9 miles of electric railroad (single track location) laid at the present time in the city's streets; and in watering the main thoroughfares, time and expense could be saved by utilizing this trackage for running street-sprinkling cars, the same as operated in a number of cities throughout the state.

The latter part of the year a City Planning Commission was appointed and probably an interesting report will be issued during the coming year.

Bridges and Grade Crossings. An act of the legislature was approved April 5, 1911, authorizing the city of Somerville and town of Arlington, any time within five years, to lay out, construct, and maintain a public way and bridge over Alewife brook, connecting Woodstock street in Somerville with Henderson street in Arlington, subject to the approval of the Metropolitan Park Commission, and assess betterments for the same. In June the street was laid out as a public way and the bridge constructed over Alewife brook, the cost being equally divided between Somerville and Arlington.

The design is an elliptical arch bridge, reinforced concrete construction, fifty-eight feet long, arch span thirty feet, width of arch thirty-one feet, four inches, rise six feet, six inches, under side of arch at centre ten feet, two inches above general elevation of water in brook, thickness of arch at centre ten inches, greatest thickness of arch two feet, one inch, and the total concrete in the structure amounts to 300 cubic yards.

The roadway is twenty feet wide and each sidewalk five feet in width. The bridge was built complete by the Hanscom Construction Company, at a cost of \$6,565.00.

Including the cost of all engineering services and incidentals the city's half-cost amounted to \$3,500.00.

This bridge was dedicated with appropriate exercises October 16, 1913.

Grade Crossings Account.**STATEMENT OF EXPENSES, 1913.**

Account overdrawn, 1912	\$17,413 93	
Paid for damages to property, and land and buildings taken	48,665 58	
Paid various parties for appraisal of prop- erty and damages	488 01	
Photographs, plans and advertising	12 00	
		\$66,579 52
CREDIT.		
Received from Commonwealth of Massachusetts, Bos- ton & Maine Railroad (lessee), and Boston Elevated Railway, apportionment of cost by decree of court and auditor		\$63,549 59
		\$3,029 93

The work of abolishing grade crossings on the Fitchburg division of the Boston & Maine railroad in Somerville is progressing; the work has been practically completed at the Somerville avenue, Webster avenue, Dane street and Medford street crossings.

At Medford street, an automatic pump is to be installed for removing storm water from the subway under the steam railroad tracks, and discharging into a city sewer at a higher elevation—this means of disposal of water being authorized by an act of the legislature.

Probably work will be commenced at the Park-street crossing the coming year.

The construction work for the elimination of these dangerous grade crossings will be continued until completed as decreed by the court, and the total cost of the work, as completed, will be apportioned as follows: The steam railroad company sixty-five per cent.; the state, twenty-five per cent., and the city ten per cent., except at the Somerville-avenue and Webster-avenue crossings, where the steam railroad and the city pay the same percentage of cost as at other crossings, the state twelve and one-half per cent., and the street railway company twelve and one-half per cent.

The plans for abolishment of these crossings were described in previous annual reports, and at two streets the plan adopted is the same as proposed by the city's scheme presented to the commission; at the other three streets the plan adopted is just the reverse of the city's scheme, as presented.

City Boundary Lines. A number of the stone boundary markers, defining the division lines between Somerville-Cambridge and Somerville-Medford, are out of plumb and should be reset; one has been cut off flush with the cellar floor of a new building on Springfield street and a new reference bound placed on the easterly line of the street.

A contemplated change in the boundary line between Somerville and Medford is under consideration by both cities, and probably an exchange of territory can be made that will be equally advantageous.

SEWER DIVISION.**Construction Account.****STATEMENT OF EXPENSES, 1913.**

Constructing "separate system" sewers (assessments levied)	\$311 47
Constructing "combined system" sewers (assessments levied)	1,213 92
Constructing "separate system" sewers (no assessments)	14,838 17
Constructing storm drains	7,647 99
Constructing catch basins and manholes, street drainage	2,589 89
Materials on hand December 31, 1913	769 44
Total expenditure	\$27,370 88
Transferred to Sidewalks Construction account	670 68
Total debit	\$28,041 56
CREDIT.	
Balance unexpended December 31, 1912	\$ 12 23
Appropriation, 1913	30,000 00
Assessments levied, sewers constructed, 1913	1,716 21
Amounts received from other departments	28 83
Materials on hand December 31, 1912	675 97
Total credit	\$32,433 24
Balance unexpended	\$4,391 68

The greater part of the new construction work has been done by contract, and the remainder by the city employing day labor where old structures were to be remodeled or replaced by some difficult construction work.

All materials have been furnished by the city, and the prices paid for supplies, for the season, have been by contract with the lowest bidder as follows:—

Sewer pipe (3 ft. lengths)	70 $\frac{1}{8}$ % discount from list price on cars
Sewer pipe fittings	71 $\frac{1}{8}$ % discount from list price on cars
Portland cement per barrel	\$1.26 on cars (net)
Sand per cubic yard	\$0.69 on cars
Sewer bricks, per M.	9.40 on cars or at yard
Iron manhole and catch basin castings, per hundred weight	1.34 on cars
Catch basin traps, each	1.70 on cars or at foundry

A number of sewers have been constructed as petitioned for in various sections of the city, or as considered necessary for the improvement of the drainage system, and portions of the cost of construction assessed on the abutting estates under orders passed by the board of aldermen.

Short lines of storm drains and overflows from congested

sewers have been constructed during the year in the most needed districts.

The "separate system" sewers (those built for house drainage only) have been extended in a number of streets in the older districts, and this system should be extended yearly until all the flooded districts in the city have two complete systems of drainage, the old sewer to be used for storm and surface water. The city pays the entire cost of these new sewer extensions for house drainage, and wherever constructed the house plumbing should be changed where necessary; and the house drains and conductor, or surface water drains, re-connected with both systems as soon as possible.

Rather a novel method of construction was employed in extending a "separate system" sewer main about 1,430 feet in a section of Broadway and Cross street,—a twelve-inch vitrified clay pipe with Portland cement joints being laid in the invert of an existing three and one-half foot storm drain structure (built in 1898) the storm water to a certain depth flowing in newly made channels constructed with Portland cement on either side of the twelve-inch pipe sewer which in times of heavy storms is completely submerged—a number of thousand dollars being saved by this method of construction; whereas, an open cut of about thirteen feet in depth would otherwise have had to be made in a narrow, asphalt-surfaced street where double car tracks exist and many underground pipes and conduits would have been encountered as well as a large amount of rock excavation and caused great inconvenience to travel and business.

New sewers and drains were constructed during the year varying in size from eight-inch pipe to thirty-inch pipe, in the following localities:—

"Separate system" sewers in:—

Aldrich street,—(easterly sidewalk) Pearl street to Flint street.

Broadway,—(laid in storm drain) Garfield avenue to Cross street.

Broadway,—(southerly sidewalk) Glen street to Cutter street.

Brook street,—Cross street to Glen street.

Cross street,—(laid in storm drain) Broadway to Pearl street.

Cutter street,—Broadway to Patten court.

Delaware street,—(southerly sidewalk) Aldrich street to angle in street.

Flint street,—(both sidewalks) Aldrich street to near Cross street.

Fremont street,—East Albion street, northeasterly.

Glen street,—Brook street to near Broadway.

Pearl street,—(southerly sidewalk) Pearl street to Aldrich street.

Rush street,—Brook street to Broadway.

Vermont avenue,—Mystic avenue to near Pennsylvania avenue.

Virginia street,—(both sidewalks) Aldrich street to Jasper street.

“Combined system” sewers in:—

Burnham street,—Broadway to near Powder House Boulevard.

Central road,—Sycamore street to near Central street.

Storm drains in:—

Bartlett street,—Vernon street to near Robinson street.

Elm street,—Davis square to Chester street.

Pearl street,—(southerly sidewalk) Cross street to Aldrich street.

Private lands,—Hall avenue to Francesca avenue.

Vermont avenue,—Mystic avenue to near Pennsylvania avenue.

Vernon street,—Glenwood road to Bartlett street.

Storm relief overflows at Davis square and Pearson road.

Summary of Work. Twenty-three new sewers and drains have been constructed during the year, a total length of 10,608.1 linear feet (2.00 miles) at a cost of \$24,011.55; plans have been made showing these sewers in detail, and assessments levied on a portion of them, amounting to \$1,716.21. (See tabular statement of sewers and drains for 1913, showing itemized statement of work and cost.)

The total length of the city's drainage system is 107.873 miles; 30.103 miles being on the “separate system” and 8.74 miles of storm drains, and the entire cost of construction has amounted to about \$1,306,901.00, exclusive of the amount paid to the state for assessments for the construction of the North Metropolitan sewerage system.

Thirty-four new catch basins have been constructed in the highways during the year, at an average cost of \$61.50 per basin, and eight removed, making a total of 1,704 basins in the city for street drainage purposes, constructed and maintained as follows:—

By the city (sewer division):—

Located in streets and subways	1,649 basins
Located in city boulevard	30 “
Located in parks (13), other city lots (12)	25 “

Total catch basins constructed and maintained by city	1,704
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TABULAR STATEMENT OF SEWERS AND STORM DRAINS BUILT IN 1913.

LOCATION.					ITEMS OF CONSTRUCTION AND COST.																						
NAME OF STREET.	FROM	TO	CONTRACTOR.	MATERIAL EXCAVATED.	Average Cut.	SEWER.		SUB-DRAIN.		Cubic yards Rock Excavation.	Price per cubic yard, Rock.	Manholes.	Average cost, Manholes.	Inlets.	PIPE SEWER, COST PER LINEAL FOOT.										Total Cost.	Assessment.	Cost to City.
						Size in inches.	Length in feet.	Size in inches.	Length in feet.						Excavating, Re-filling, and Pipe Laying.		Price, including Sub-drain where laid.	Inspection.	Miscellaneous.	Lumber.	Repairing Side-walks, Resurfacing Streets, etc.	Average Cost per lineal foot.					
															Main Sewer.	Sub-drain.											
*Aldrich (e. side)	Pearl street	Flint street	Charles A. Key	Hardpan, rock and sand	9.0	8	295.9		34	53	\$4.00	3	\$39.67	8													
*Delaware (s. side)	Aldrich street	Angle in street	Charles A. Key	Sand and filling	6.8	8	332.4					1	39.67	10													
*Flint (n. side)	Aldrich street	Near Cross street	Charles A. Key	Sand and filling	5.5	8	589.6		325			2	39.67	23													
*Flint (s. side)	Aldrich street	Near Cross street	Charles A. Key	Sand and filling	5.5	8	555.5		75			2	39.67	23	\$0.80	\$0.20	\$0.26	\$0.06	\$0.02	\$0.13	\$0.34	\$1.92	\$5,115.97		\$5,115.97		
*Virginia (n. side)	Aldrich street	Jasper street	Charles A. Key	Clay and filling	8.3	8	447.8			11.6	4.00	2	39.67	18													
*Virginia (s. side)	Aldrich street	Jasper street	Charles A. Key	Clay and filling	8.3	8	443.3					2	39.67	17													
Bartlett (storm-drain)	Vernon street	Ames street	Bartholomew Burke	Hardpan	8.0	10	358.1					1	43.80	1	0.73		0.28	0.05	0.04			1.18	567.76		567.76		
Bartlett (storm-drain)	Ames street	Near Robinson street	Bartholomew Burke	Hardpan	8.0	8	117.7																				
*Broadway (s. side)	Glen street	Cutter street	Denis I. Crimings	Sand	10.3	8	268.4					2	44.44	10	0.98												
*Cutter	Broadway	Patten court	Denis I. Crimings	Sand	8.0	8	484.1		635.8			1	44.44	39	0.75	0.20	0.33	0.04	0.21	0.36	0.08	2.09	2,464.53		2,464.53		
*Rush	Brook street	Broadway	Denis I. Crimings	Hardpan and clay	8.0	8	428.9			3	4.00	1	44.44	31	0.75												
*Brook	Cross street	Glen street	John D. Collins	Clay and boulders	10.5	10	543.0			34.3	5.00	2	65.50	32	0.95	}		0.37	0.11	0.13	0.40	0.14	2.60	1,908.02		1,908.02	
*Glen	Brook street	Near Broadway	John D. Collins	Sand	9.5	10	189.4					1	65.50	14	0.90												
*Broadway and Cross street	Garfield avenue	Pearl street	Day labor	Pipe laid in invert of storm-drain		12	1430.0										0.31	0.04				0.95	1,363.58		1,363.58		
Burnham	Broadway	Near Powder Ho. Blvd.	Bartholomew Burke	Stone filling and sand	6.7	8	483.7			61.3	3.00	1	43.00	35	0.48		0.22	0.05	0.01			1.23	595.90	\$595.90			
Central road	Sycamore street	Near Central street	Bartholomew Burke	Hardpan	9.7	8	452.0			1	2.50	2	40.50	21	0.87		0.22	0.08	0.01			1.37	618.02	525.59	92.43		
Elm (storm-drain)	Davis square	Chester street	Denis I. Crimings	Sand	12.5	30	338.5					1	79.00	0	1.69		5.48	0.27	0.39	1.64	2.28	11.99	4,051.68		4,051.68		
*Fremont	E. Albion street	Northeasterly	Day labor	Hardpan		10	48.7															109.11		109.11			
*Pearl	Cross street	Aldrich street	Charles A. Key	Rock, hardpan, sand	12.5	10	834.8	4	587	141.4	6.00 7.50	5	53.80	31	1.70	0.20	0.46	0.10	0.07	0.31	0.44	4.62	3,876.96		3,876.96		
Pearl (storm-drain)	Cross street	Aldrich street	Charles A. Key	Rock, hardpan, sand		15	853.0					4			(Built by agreement)							1.42	1,212.26		1,212.26		
Private lands (storm-drain)	Hall avenue	Francesca avenue	Denis I. Crimings	Rock, ballast and sand		15	238.0							2	(Built by agreement)							2.71	636.88		636.88		
*Vermont avenue	Mystic avenue	Near Pennsylvania ave.	Charles A. Key	Hardpan	7.0	8	337.6					2	40.75	17	0.40		0.23	0.04				0.92	311.47	311.47			
Vermont avenue (storm-drain)	Mystic avenue	Near Pennsylvania ave	Charles A. Key	Hardpan		8	325.0							17	(Built by agreement)							0.67	219.21		219.21		
Vernon (storm-drain)	Glenwood road	Bartlett street	Bartholomew Burke	Hardpan		15	212.7								(Built by agreement)							2.54	539.86		539.86		
Davis square	Storm relief overflows		Denis I. Crimings	Sand				Large chamber constructed connecting storm-drain and sewer. (1)							(Built by agreement)							187.49		187.49			
Pearson road	Storm relief overflow at	Medford line	Day labor	Sand				Large chamber constructed connecting storm-drain and sewer. (1)														232.85		232.85			
*Mystic avenue	Moreland street	Angle	(Sewer constructed 1912)	Partial assessment).																			283.25				
Total length and cost of new sewers and drains built in 1913,					10,608.1 (2.009 miles.)										\$24,011.55 \$1,716.21 \$22,578.59												

*Separate system sewer.

Total length of public sewers in the city, January 1, 1914 488,676.9 feet.
 Total length of private sewers in the city, January 1, 1914 34,748.0 feet.
 Total length of sewers in the city, January 1, 1914 523,424.9 feet, = 99.134 miles. (30.103 miles separate system sewers.)
 Total length of storm drains in the city, January 1, 1914 46,145.0 feet, = 8.739 miles.
 Total length of the city drainage system, January 1, 1914 107.873 miles.
 Total length of Met. sewerage system mains running through the city 3.475 miles.

By Boston & Maine Railroad Company on railroad locations	33	basins
By state, located in boulevards	52	"
		85
Total catch basins in the city for storm drainage purposes		1,789

Metropolitan Sewer Connections. All of the city's connections with the North Metropolitan state sewerage system are in good condition. No new main connections have been required.

Wherever the city's "combined system" sewers are connected with the Metropolitan sewer the flow is automatically regulated so that in times of storms the connection closes and the discharge continues through the old channels to the rivers; the "separate system" connections are always in operation under all conditions. The locations of the connections of the city's mains with the state sewer are shown in the 1912 report.

At the Somerville-avenue-Poplar street connection with the Metropolitan sewer, records compiled from an automatic recording clock placed in the "regulator chamber" on the combined system show this outlet to have been cut off and completely closed an average of 366 hours per year and partly closed 400 hours per year, for the past fourteen years. In the 1912 report a table shows the cut-off as recorded each year.

The city's assessment for the Metropolitan sewer system for the past year was \$44,811.87 on construction account and \$24,913.50 for maintenance, and the total amount paid the commonwealth of Massachusetts for this state sewer has been \$957,146.19 (1892-1913, both years inclusive). The total length of the Metropolitan sewerage system mains running through the city amounts to 3.475 miles.

New Work. The separate system sewers should be extended in the old sections of the city each year, as the appropriation will allow. The construction of the storm drainage system commenced in the vicinity of North Somerville, where buildings and new streets are being rapidly constructed, should continue, the outlet for this district being through the city of Medford into Mystic river; and in connection therewith, the boundary line between Somerville and Medford should be changed in the vicinity of Pearson road and Boston avenue, so that this outlet, Two Penny brook, can be improved by Somerville, and the covered channel extended to the Boston & Maine railroad, to conform with the work already done within the present city limits.

A large storm overflow drain has been contemplated for some time at the East Cambridge line, across private lands from Somerville avenue, discharging into the head of Miller's

river; and this matter of improving the city's drainage system should be carried out without further delay.

Some agreement should be made whereby a storm drain and sewers may be constructed in the valley along the location of the Southern division of the Boston & Maine railroad, between Gilman square and Cedar street, this being the natural outlet for a number of the city's streets and house lots which at the present time have either very poor or no means of drainage, and would abolish two syphons under the railroad tracks.

The proposed storm drain would be of great benefit to the railroad company, and give relief to sections of the city's over-charged drainage system during heavy storms by diverting through this proposed conduit the proper drainage area which is now flowing in other directions.

Maintenance Account.

STATEMENT OF EXPENSES, 1913.

Maintenance of sewers, including cleaning and flushing (107.9 miles)	\$3,291 05	
Maintenance of catch basins, cleaning and flushing (1,704)	8,567 24	
Changing line and grade and repairing catch basins	141 61	
Changing line and grade and repairing manholes	107 71	
Repairing old sewers	668 24	
Inspection and location of house drains	218 78	
New tools and supplies	311 63	
Repairs of tools and property	229 06	
Maintenance of sewer division yards and buildings	549 71	
Sundry expenses, car fares, telephone, etc.	85 41	
Total debit		\$14,170 44
CREDIT.		
Appropriation	\$13,000 00	
Transfer from Parks Maintenance account,	700 00	
Amounts received from other departments and accounts,—materials furnished	470 49	
Total credit		\$14,170 49
Balance unexpended		05
Value of tools and property on hand used in maintenance of sewers		\$1,500 00

A permanent force of men and teams are kept continually at work flushing, cleaning and repairing the city's drainage system, catch basins, etc., the expense necessarily increasing yearly as lengths of sewers, drains, and catch basins are added to the system, and the distance increased to the dumps.

About 5,525 cubic yards of deposit have been removed from the catch basins and sewers during the year, at an average cost

of \$1.55 per cubic yard, and the average cost per mile for cleaning and flushing the drainage system, including catch basins, has amounted to \$109.90.

Fifty-one catch basins and fifty-four manholes have been repaired and grade or line changed.

A number of repairs have been made on some of the old sewers, alterations made in the outlets, and overflows and extra manholes built for the purpose of improving the system.

Three hundred and fifty permits have been issued to licensed drain layers for connecting buildings with the main sewers, forty-one being for repairs or alterations; all of the work being done under the supervision of the city's inspector.

At the present time there are ten persons licensed as drain layers by the city and under bonds, for the purpose of laying these private drains.

There are to date about 15,349 private drain connections with the city's drainage system.

During the year the sewer department has done considerable miscellaneous work for other city departments and outside companies where alterations and new construction work have been required, furnishing materials and labor, and being reimbursed for the same to the amount of \$470.49.

PARKS AND PLAYGROUNDS DIVISION.

At the present time there are twenty separate parcels of land located in all parts of Somerville, used for parks and playgrounds, amounting to 75.0 acres, and also a boulevard about one and one-third miles in length maintained by the city. Included in this total area are playgrounds where the land is owned by private parties and leased to the city, for use, in the following localities: On Fellsway east, 2.5 acres; Knowlton street, 1.5 acres; Tufts College land, 4.6 acres; and the cemetery lot on Somerville avenue, .7 acre. Satisfactory arrangements have been made during the past year whereby the city has the use of Tufts College playfield during the summer vacation months.

Four of these larger pleasure parks are famous historically.

There are eight baseball "diamonds" and three football fields in use and under the city's supervision, as well as numerous smaller playgrounds, on which are located an outdoor gymnasium, running track, tennis courts, and various kinds of athletic apparatus for recreation and rest, where children can play and enjoy themselves and are safe from the dangers of a thickly-settled city.

These areas are constantly in use by the many athletic teams, the games being arranged for and regularly scheduled on the various grounds throughout the season, about three

hundred ball games being provided for by schedule the past year.

The larger areas have been policed by regular officers from the police department, when required, the expense being paid from the police appropriation; trees and shrubs added to the various grounds, and bulbs, plants, and flowers furnished in their seasons, and during the winter time ponds flooded for skating when the weather was favorable.

This area of parks and playgrounds compares favorably with other cities, Somerville being very small in area and the most densely populated city in the state, averaging about 20,000 in population to a square mile.

At Lincoln park shower-baths have been installed, at Mason street playground and Somerville field tennis courts constructed, and granolithic sidewalks have been constructed on a section of Powder House boulevard.

On the easterly end of Central Hill park a new Public Library building has been completed and the surrounding grounds should be laid out and re-graded, permanently, according to a well-designed and harmonious plan.

On several of the playfields concrete buildings should be constructed in place of some of the old wooden structures, additional apparatus provided on some of the principal parks and playgrounds for the smaller children's pleasure, where a regular park employee can have the care of the same, and some of the smaller playground areas should be enclosed by wire fencing for the protection of children.

At the westerly end of Lincoln park a wading pool having an area of not over 3,000 square feet could be constructed, with a concrete bottom and side walls, at a small cost. This would be a source of much enjoyment to a very large number of children in the immediate vicinity, and maintained exclusively for their use.

In certain localities of the city well-lighted playgrounds, during the summer evenings, should be maintained for the young men and women working in the factories daily.

The city has become so densely populated that portions of some of the larger park areas should be utilized for public recreation and physical training purposes; Broadway park (northerly end), ball field and children's playground; Central Hill park, tennis courts and children's playground; Tufts park, children's playground, gymnastic apparatus, etc.

The Playgrounds Association has continued its good work in the city, and funds contributed by citizens and a sum of \$2,500 appropriated by the city for the special equipment of grounds and supervision of playfields during the summer months have been expended under the direction of the school committee.

Certain areas were used in the city's parks, playgrounds, and schoolyards, which had been equipped with swings, sand boxes, and various kinds of gymnastic apparatus, and instructors were employed during the months of July and August. Many children enjoyed themselves at these outdoor kindergarten schools, while the larger boys were instructed in baseball, basket ball, and other games, and in the use of gymnastic apparatus, teams being formed and athletic competitions held between the various teams, and at the end of the summer season a carnival was held at the city's new athletic field and an exhibition given on Central Hill park.

Probably still better results in this city could be obtained by establishing a system with a permanent director of athletics and gymnastics who would have charge and instruct in every form of athletics and recreation; including all sports and games for the high schools, grammar schools, and all others using the city's playfields and buildings.

The new "Somerville Field" located in the northwesterly part of the city, bordered by Powder House boulevard and Alewife brook, has proven to be very popular with the various clubs and athletic teams in our city, and a number of outside school teams and associations have had the use of this field. The income the city has received during the past year amounted to \$489.00.

Some small improvements have been made during the year, but the temporary shower-baths and sanitariums under the grand-stand should be placed in a permanent building, a section of the grand-stand covered, and progress made in the development of the large ungraded portion of the field; an appropriation should be made annually for this purpose.

If this area is laid out and completed as originally designed, Somerville will have the finest recreation field owned by any city, and would include areas for baseball, football, basket ball, tennis, cricket, croquet, playfield for children, out-door gymnasium, running track, swimming pool, and boating and skating on the brook, a concrete grand-stand and field houses, equipped with shower baths, lavatories, dressing rooms, lockers, etc. In the 1910 report a plan was published showing the proposed laying out.

An area owned by the city, and known as the Collins and Ham ledge property, located on Clarendon Hill, near the Cambridge boundary line, might be developed in the future into a pretty pleasure park, similar in nature to the Powder House park; also the Holland-street ledge property, owned by the city and situated in West Somerville, could be developed in the future by laying out a portion of the area for streets and house lots, and the remainder used for a children's playground.

There are a number of vacant lots in the city owned by

private parties, large enough for the purpose of establishing recreation grounds and breathing spaces, which undoubtedly could be obtained for short-term leases by payment of the taxes to the owner of the property, and be of great benefit to a large number in the congested parts of the city.

With all these various parcels of land referred to properly developed in the future as parks, playgrounds, and resting places, the city will be amply provided for in this line, and second to none in the state.

The city's assessment for Metropolitan parks and boulevards for the year 1913 amounted to \$18,242.95 on construction account, \$17,914.65 being the proportional cost for maintaining the same; in addition to this the city's special assessment for the Charles River Basin construction and maintenance amounted to \$6,349.56; for the improvement of Alewife brook and maintenance of same, \$1,222.50; and for the maintenance of Wellington bridge across Mystic river, \$631.31.

The total of the above assessments amounts to \$44,360.97, being Somerville's proportional payment to the state on account of the Metropolitan park system for the year 1913.

The total assessment paid to the state for parks and boulevards amounts to \$447,836.91, January 1, 1914, and the only length of state boulevard at present constructed in this city consists of seven-tenths of a mile of double roadway, located in the easterly part of the city, and extending between Broadway and Mystic river, and four-tenths of a mile bordering Mystic river at the West Medford line.

In the 1910 report a table was published showing the area, year acquired, cost of land, cost of construction, present valuation, etc., of all city parks and playgrounds.

PARKS AND PLAYGROUNDS.

Maintenance Account.

STATEMENT OF EXPENSES, 1913.

(Playgrounds.)		(Parks.)
	Broadway Park (15.9 acres) :—	
\$215 82	Maintenance of grounds, pond, and general care of property, labor and teams	\$818 26
	Trimming and spraying trees	38 13
	Tools and supplies	15 95
	Repairing tools and property	91 59
	Plants, flowers, bulbs, etc.	194 80
\$215 82		\$1,158 73
	Broadway Parkway (2.0 acres):—	
	Maintenance of grounds, labor and teams	\$123 00
	Plants, flowers, etc.	50 00
		\$173 00

(Playgrounds.)

(Parks.)

Central Hill Park (13.1 acres):—

\$51 30	Maintenance of grounds and general care of property, labor and teams	\$919 98
	Trimming and spraying trees	25 60
	Tools and supplies	40 15
	Repairing tools and property	116 05
	Plants, flowers, bulbs, shrubs, etc.	308 30

\$51 30

\$1,410 08

Lincoln Park (8.3 acres):—

\$650 40	Maintenance of grounds and general care of property, labor and teams	\$663 21
125 40	Tools and supplies	24 26
43 70	Repairing tools and property	115 59

\$819 50

\$803 06

Prospect Hill Park (2.6 acres):—

\$5 00	Maintenance of grounds and observation tower, labor and teams	\$749 19
	Trimming and spraying trees	28 00
	Tools and supplies	20 64
	Repairing tools and property	70 12

\$5 00

\$867 95

Tufts Park (4.5 acres):—

\$22 20	Maintenance of grounds and Old Powder House, labor and teams	\$519 85
	Trimming and spraying trees	30 00
	Tools and supplies	16 23
	Repairing tools and property	20 37
	Plants, flowers, bulbs, etc.	181 25

\$22 20

\$767 70

Paul Revere Park (.02 acre):—

	Maintenance of grounds, labor	\$53 76
	Plants, flowers, shrubs, etc.	42 19

\$95 95

Beimont Street Park (0.4 acre):—

\$9 25	Maintenance of grounds, labor and teams	\$132 59
	Plants, flowers, bulbs, etc.	130 70

\$9 25

\$263 29

Powder House Square Parkway (0.2 acre):—

	Maintenance of area between streets, labor	\$48 08
	Plants, shrubs, etc.	15 00

\$63 08

Powder House Boulevard (1 1-3 miles long):—

	Maintenance of roadway, walks and grass plots, labor and teams	\$389 70
	Re-surfacing of roadway	518 47

\$908 17

Cemetery, Somerville avenue (0.7 acre):—

	Maintenance of grounds, labor and teams, ...	\$53 92
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(Playgrounds.)		(Parks.)
	"Somerville Field," at Alewife Brook (11.5 acres):—	
\$533 25	Maintenance of field and care of property, labor and teams	\$439 80
110 89	Tools and supplies	49 30
43 36	Repairing tools and property	77 04
	Fencing playfield	62 46
\$687 50		\$628 60
	Playground, Cedar street and Broadway (4.3 acres):—	
\$396 19	Maintenance of grounds, labor and teams, .	\$134 87
20 25	Tools and supplies	12 10
11 87	Repairs of tools and property	14 62
144 64	Improvement of grounds	
\$572 95		\$161 59
	Playground, Glen street and Oliver street (0.9 acre + 1.5 acres leased):—	
\$153 71	Maintenance of grounds, labor and teams,	\$34 30
23 00	Supplies and repairs	11 10
132 88	Improvement of grounds	
\$309 59		\$45 40
	Playground, Kent street and Somerville avenue (0.8 acre):—	
\$69 39	Maintenance of grounds, labor and teams,	\$44 65
19 01	Supplies and repairs	7 37
64 68	Improvement of grounds	
\$153 08		\$52 02
	Playground, Poplar street and Joy street (0.5 acre):—	
\$81 19	Maintenance of grounds, labor and teams,	\$40 84
17 00	Supplies	
46 74	Improvement of grounds	
\$144 93		\$40 84
	Playground, Beacon street, near Washington street (0.2 acre):—	
\$2 15	Maintenance of grounds, labor and teams .	\$12 85
	Playground, Webster avenue, near Cambridge line (0.2 acre):—	
\$3 50	Maintenance of grounds, labor and teams,	\$2 81
	Playground, Mason street and Broadway (0.3 acre):—	
\$46 33	Maintenance of grounds, labor and teams,	\$28 21
7 25	Supplies	
\$53 58		\$28 21
	Playground, Fellsway East (2.5 acres leased):—	
\$85 17	Maintenance of playfield, labor	\$14 71
9 00	Supplies	13 21
48 51	Improvement of ball field	
\$142 68		\$27 92

(Playgrounds.)

(Parks.)

Tufts College Land (used in winter time for skating, and summer months for playground; by permission):—		
\$129 61	Maintenance of skating area and hockey rink, labor and teams	
82 59	Maintenance of field, summer playground	
	Police service	\$35 73
\$212 20	General repairs, tools and property . . .	\$35 73
		\$95 57
\$28 47	Incidentals	\$61 08
\$3,433 70	{ Total expenditure, maintenance (75 acres) 65.7 acres city property + 9.3 acres leased land, 0.7 acres cemetery and 1.36 miles boulevard, and 0.54 mile parkway, roads }	
	Transferred to Sewer account	700 00
		\$8,457 55

CREDIT.

Playgrounds
and
Recreation.

Parks.

	Appropriation for parks, \$8,300 00	
	Transfer from Revenue account	50 00
	Received from other accounts	107 88
\$3,300 00	Appropriation for playgrounds	
50 00	Transfer from Revenue account	
84 01	Received from other accounts	
\$3,434 01		\$8,457 88

\$ 0 31 Balance unexpended \$ 0 33
 (Expenditure, 1913, under direction of school committee for summer playgrounds, city appropriation, \$2,500.00.)

PLAYGROUNDS EXTENSION ACCOUNT.**Expenditures, 1913.**

Somerville Field and Playground, Broadway, corner Mason street, constructing tennis courts	\$704 23
Appropriation	2,502 58
Balance unexpended	\$1,798 35

Appended Table.

Annexed to this report is a table giving names of all streets in the city, public and private, lengths, widths, and the total mileage; in the 1910 report tables were published showing old names of certain streets as formerly known, and names of public squares in the city.

Respectfully submitted,

ERNEST W. BAILEY,
 City Engineer.

**TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.**

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Abdell	Somerville ave. .	Southwesterly . .	Private.	25	....	203
Aberdeen road .	Cedar st. . . .	Highland ave. . .	Public.	40	449	....
Aberdeen road ext.	Angle	Westerly	Private.	30	...	67
Acadia pk. . . .	Somerville ave. .	Northeasterly . .	Public.	40	256	....
Adams	Broadway	Medford st. . . .	Public.	40	907	....
Addison pl. . .	Somerville ave. .	Southwesterly . .	Private.	20	....	150
Adelaide rd. . .	Somerville ave. .	Easterly	Private.	20	....	138
Adrian	Marion st. . . .	Joseph st. . . .	Public.	40	579	....
Albion pl. . . .	Albion st. . . .	Northeasterly . .	Private.	10	....	166
Albion ct. . . .	Albion st. . . .	Southwesterly . .	Private.	16	....	116
Albion	Central st. . . .	Cedar st. . . .	Public.	40	2,742	....
Albion	Broadway	Medford line . .	Private.	50	...	100
Albion ter. . . .	Albion st. . . .	Southwesterly . .	Private.	25	....	100
Aldersey	Walnut st. . . .	Vinal ave. . . .	Public.	40	508	....
Aldrich	Pearl st. . . .	B. & L. R. R. . .	Public.	40	611	....
Alfred	Broadway	Medford line . .	Private.	50	....	50
Allen	Somerville ave. .	Charlestown st. .	Private.	25	....	680
Allen ct. . . .	Park st. . . .	Northwesterly . .	Private.	20	....	150
Alpine	Cedar st. . . .	Southeasterly . .	Public.	30	667	....
Alpine	Alpine st. . . .	Lowell st. . . .	Public.	40	688	....
Alston	Cross st. . . .	Shawmut pl. . . .	Public.	40	567	....
Ames	Bartlett st. . . .	Robinson st. . . .	Public.	40	580	....
Appleton	Willow ave. . . .	Clifton st. . . .	Public.	40	548	....
Appleton	Clifton st. . . .	Liberty ave. . . .	Public.	40	120	....
Arlington	Franklin st. . . .	Lincoln st. . . .	Public.	40	452	....
Arnold ave. . . .	Porter st. . . .	Southeasterly . .	Private.	15	....	127
Arnold ct. . . .	Beacon st. . . .	Northeasterly . .	Private.	10	....	115
Arthur ct. . . .	Linden st. . . .	Easterly	Private.	about 10	....	100
Arthur	Broadway	Bonair st. . . .	Public.	40	438	....
Ash ave. . . .	Meacham st. . . .	East Albion st. . .	Public.	40	554	....
Ash ave. . . .	East Albion st. .	Northeasterly . .	Private.	40	....	151
Ashland	Summer st. . . .	Sartwell ave. . . .	Public.	30	478	....
Atherton	Central st. . . .	Spring st. . . .	Public.	40	741	....
Auburn ave. . . .	Cross st. . . .	B. & L. R. R. . .	Private.	30	....	600
Austin	Broadway	Mystic ave. . . .	Public.	40	716	....
Autumn	Broadway	Bonair st. . . .	Public.	20	408	....
Avon	School st. . . .	Central st. . . .	Public.	40	1,360	....
Avon pl. . . .	Cross st. . . .	B. & L. R. R. . .	Private.	25	....	150
Bailey	North st. . . .	West Adams st. . .	Private.	40	....	420
Banks	Elm st. . . .	Summer st. . . .	Public.	40	639	....
Bartlett	Vernon st. . . .	Broadway	Public.	40	1,550	....
Barton	Broadway	Russell road. . . .	Private.	40	....	382
Bay State ave. .	Broadway	Fosket st. . . .	Public.	40	1,237	....
Beach ave. . . .	Webster ave. . . .	Columbia st. . . .	Private.	about 20	...	200
Beacon pl. . . .	Beacon st. . . .	Northeasterly . .	Private.	15	...	200
Beacon	Cambridge line .	Somerville ave. .	Public.	66	6,607	....
Beacon ter. . . .	Somerville ave. .	Northeasterly . .	Private.	24	....	110
Bean's ct. . . .	Cutter st. . . .	Southeasterly . .	Private.	16	....	100
Beckwith circle .	Beacon st. . . .	Southwesterly . .	Private.	28.5	....	112
Bedford	South st. . . .	Cambridge line .	Public.	30	165	....
Beech	Somerville ave. .	Atherton st. . . .	Public.	40	323	....
Belknap	Broadway	Russell road. . . .	Public.	40	449	....
Bellevue ter. . .	Albion st. . . .	Northeasterly . .	Private.	20	....	90
Belmont	Somerville ave. .	Highland ave. . .	Public.	40	2,192	....
Belmont pl. . . .	Belmont st. . . .	Southeasterly . .	Public.	25	177	....
Belmont sq. . . .	Belmont st. . . .	Southeasterly . .	Private.	30	....	75
Belmont sq. . . .	Belmont ter. . . .	No'es'ly & so'ws'y	Private.	20	....	145
Belmont ter. . . .	Belmont st. . . .	Easterly	Private.	15	....	137
Benedict ave. . .	Broadway	Benedict st. . . .	Private.	20	....	200
Benedict	Union st. . . .	Austin st. . . .	Public.	40	585	....
Bennett ct. . . .	Bennett st. . . .	Prospect st. . . .	Private.	10	....	100
Bennett	Prospect st. . . .	Bennett ct. . . .	Private.	40 to 25	....	400
Benton road . . .	Summer st. . . .	Hudson st. . . .	Public.	40	1,208	....
Berkeley	School st. . . .	Central st. . . .	Public.	40	1,360	....
Berwick	Hinckley st. . . .	Northwesterly . .	Private.	20	....	170
Bigelow	Boston st. . . .	Munroe st. . . .	Public.	50	208	....
Billingham	Broadway	William st. . . .	Public.	40	563	....
Bishop's pl. . . .	Glen st. . . .	Easterly	Private.	10	....	75

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Blakeley ave. . . .	Fellsway east . . .	Cross st.	Private.	40	....	630
Bleachery ct. . . .	Somerville ave. . .	Fitchburg R. R. . .	Private.	30	....	450
Bolton	Oak st.	Houghton st. . . .	Public.	40	476	....
Bonair	Cross st.	Walnut st.	Public.	40	1,535	....
Bond	Broadway	Jaques st.	Public.	40	655	....
Bonner ave.	Washington st. . .	Columbus ave. . . .	Public.	40	376	....
Boston ave.	Medford line . . .	Mystic river	Public.	60	915	....
Boston ave.	Broadway	Medford line	Public.	50	80	....
Boston ave.	Broadway	Highland road . . .	Public.	65	287	....
Boston ave.	Highland road . . .	Prichard ave. . . .	Public.	50	509	....
Boston ave.	Prichard ave. . . .	Easterly to angle in st.	Private.	50	....	146
Boston ave.	Angle inst. south'y	Morrison ave. . . .	Private.	40	....	1,025
Boston	Washington st. . .	Prospect Hill ave. .	Public.	45	640	....
Boston	Prospect Hill av. .	Walnut st.	Public.	40	1,242	....
Bow	Union sq.	Wesley sq.	Public.	60	658	....
Bow	Wesley sq.	Somerville ave. . .	Public.	50	570	....
Bowdoin	Washington st. . .	Lincoln park	Public.	40	341	....
Bowers ave.	Cottage ave. . . .	Elm st	Private.	24	....	288
Bow St. pl.	Bow st.	Northwesterly . . .	Private.	40	....	300
Bradford ave. . . .	School st.	Southeasterly . . .	Private.	40	....	150
Bradley	Pearl st.	Walter st.	Public.	40	762	....
Brastow ave.	Lowell st.	Porter st.	Public.	40	686	....
Bristol road	Broadway	Medford line	Private.	40	....	98
Broadway	Charlestown line .	Cross st.	Public.	100	2,590	....
Broadway	Cross st.	Marshall st.	Public.	100 to 200	2,060	....
Broadway	Marshall st. . . .	Main st.	Public.	100	1,570	....
Broadway	Main st.	Top of hill	Public.	100 to 90	1,030	....
Broadway	Top of hill	Albion st.	Public.	90	2,540	....
Broadway	Albion st.	Willow ave.	Public.	90 to 70	1,030	....
Broadway	Willow ave.	Paulina st.	Public.	70	3,250	....
Broadway	Paulina st.	Arlington line . . .	Public.	65-60-65	3,220	....
Broadway pl.	Broadway	Southwesterly . . .	Private.	22	....	250
Bromfield road . . .	Warner st.	Dearborn road . . .	Public.	40	1,262	....
Brook	Glen st.	Cross st.	Public.	40	504	....
Browning road . . .	Sycamore st. . . .	Central st.	Public.	40	679	....
Buckingham	Beacon st.	Dimick st.	Public.	40	292	....
Buena Vista rd. . .	Holland st.	Southwesterly . . .	Private.	35	....	72
Burnham	Broadway	Powder House Blvd.	Private.	40	....	537
Burnside ave. . . .	Elm st.	Summer st.	Public.	40	720	....
Cady av.	Simpson ave. . . .	Northwesterly . . .	Private.	40	....	194
Caldwell ave. . . .	Washington st. . .	Southerly	Private.	20	....	210
Calvin	Beacon st.	Dimick st.	Public.	40	263	....
Calvin	Dimick st.	Washington st. . .	Public.	30	392	....
Cambria	Central st.	Benton road	Public.	40	488	....
Cameron ave. . . .	Holland st.	Cambridge line . . .	Public.	60	1,065	....
Campbell pk.	Meacham rd. . . .	Kingston st.	Public.	40	399	....
Campbell Pk. pl. . .	Kingston st. . . .	Arlington Br. R.R. .	Private.	20	....	84
Carlton	Somerville ave. . .	Lake st.	Public.	40	300	....
Carver	Porter st.	Northwesterly . . .	Private.	40	....	156
Cedar ave.	Cedar st.	Linden ave.	Private.	22	....	290
Cedar ct.	Cedar st.	Southeasterly . . .	Private.	15+	....	70+
Cedar St. pl.	Murdock st. . . .	Southwesterly . . .	Private.	20	....	220
Cedar St. pl.	Cedar n'r Elm st.	Southeasterly . . .	Private.	12+	....	80+
Cedar	Elm st.	Broadway	Public.	40	4,137	....
Central	Somerville ave. . .	Summer st.	Public.	33	1,043	....
Central	Summer st.	Medford st.	Public.	40	2,539	....
Central	Medford st. . . .	Broadway	Public.	45	1,079	....
Centre	Albion st.	B. & L. R. R. . . .	Private.	35	....	200
Chandler	Park ave.	Broadway	Public.	40	1,232	....
Chapel	College ave. . . .	Chandler st.	Public.	40	273	....
Chapel ct.	Sycamore st. . . .	Northwesterly . . .	Private.	12	....	130
Charles	Washington st. . .	Southerly	Public.	30	166	....
Charlestown	Allen st.	Easterly	Private.	15	....	400
Charnwood road . .	Willow ave.	Hancock st.	Public.	40	589	....
*Chelsea	Mystic ave.	Melrose st.	Private.	50	....	1,390

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Cherry . . .	Elm st. . . .	Highland ave. . .	Public.	45	1,450	....
Chester . . .	Elm st. . . .	Cambridge line . .	Public.	40	885	....
Chester ave. . .	Medford st. . . .	Angle	Public.	about 22	220	....
Chester ave. . .	Angle	Cross st.	Public.	20	451	....
Chester pl. . .	Chester st. . . .	Northwesterly . .	Private.	40	....	200
Chestnut . . .	Poplar st. . . .	Southeasterly . .	Public.	40	537	....
Chetwynd road .	Curtis st. . . .	West Adams st. . .	Private.	40	....	892
Church	Summer st. . . .	Lake st.	Public.	40	964	....
City road . . .	Broadway	Cedar st.	Private.	45	....	980
Claremon . . .	Holland st. . . .	Mead st.	Public.	40	560	....
Clarendon ave. .	Broadway	Cambridge line . .	Public.	40	1,217	....
Clark	Newton st. . . .	Lincoln parkway . .	Public.	35	552	....
Cleveland . . .	Central st. . . .	Harvard st. . . .	Public.	40	459	....
Clifton	Appleton st. . . .	Morrison ave. . . .	Public.	40	200	....
Clifton	Morrison ave. . . .	Arlington Br. R.R. .	Private.	40	....	220
Clyde	Cedar st.	Murdock st. . . .	Public.	30	664	....
College ave. . .	Davis sq.	Medford line . . .	Public.	60	4,080	....
College Cir. . .	College ave. around to College ave.		Private.	10 and 12	....	284
Columbia . . .	Webster ave. . . .	Cambridge line . .	Public.	40	816	....
Columbia ct. . .	Columbia st. . . .	Webster ave. . . .	Private.	9	....	150
Columbus ave. .	Washington st. . .	Walnut st.	Public.	40	1,425	....
Concord ave. . .	Prospect st. . . .	Wyatt st.	Public.	40	1,483	....
Concord ave. . .	Wyatt st.	Beacon st.	Public.	30	472	....
Congress pl. . .	Linwood st. . . .	Somerville ave. . .	Public.	50	202	....
Conlon ct. . . .	Columbia st. . . .	Easterly	Private.	20	....	200
Connecticut ave. .	Mystic ave. . . .	Pennsylvania ave. .	Private.	40	....	487
Conwell ave. . .	Curtis st.	North st.	Public.	40	1,346	....
Conwell	Highland ave. . .	Southwesterly . .	Public.	35	363	....
Cooney	Beacon st. . . .	Line st.	Private.	30	....	220
Corinthian road .	Broadway	Cady ave.	Private.	40	....	640
Cottage ave. . .	Russell st. . . .	Chester st.	Public.	40	550	....
Cottage circle . .	Cottage ave. . . .	Southwesterly . .	Private.	25	....	87
Cottage pl. . .	Washington st. . .	Northwesterly . .	Private.	about 11	....	150
Craigie	Somerville ave. . .	Summer st.	Public.	50	1,280	....
Craigie ter. . .	16 Craigie st. . .	Westerly	Private.	25	....	126
Crescent	Washington st. . .	Hadley	Private.	30	....	402
Crescent	Hadley st.	Pearl st.	Public.	30	174	....
Crocker	Highland ave. . .	Crown st.	Public.	40	528	....
Cross	Medford st. . . .	Broadway	Public.	45	2,680	....
Cross st. (East) .	Broadway	Mystic ave.	Public.	40	1,100	....
Cross St. pl. . .	Cross st.	Northwesterly . .	Private.	24	....	150
Crown	Porter st.	Lowell st.	Private.	30	....	700
Curtis ave. . . .	Curtis st.	Proposed st. . . .	Private.	40	....	654
Curtis	Broadway	Medford line . . .	Public.	40	2,357	....
Cutler	Hinckley st. . . .	Northwesterly . .	Private.	20	....	170
Cutter ave. . . .	Summer st. . . .	Highland ave. . .	Public.	40	480	....
Cutter pk. . . .	Cutter ave. . . .	Northwesterly . .	Private.	12	....	83
Cutter	Broadway	Webster st.	Public.	40	730	....
Cypress	Central st. . . .	Beech st.	Public.	40	262	....
Dana	Bonair st.	Pearl st.	Public.	40	696	....
Dane	Somerville ave. . .	Washington st. . .	Public.	40	1,341	....
Dane ave. . . .	Dane st.	Leland st.	Public.	30	569	....
Dante terrace . .	Craigie st.	Westerly	Private.	25	....	125
Dartmouth . . .	Medford st. . . .	Broadway	Public.	40	1,465	....
Day	Elm st.	Cambridge line . .	Public.	40	908	....
Dearborn road . .	Boston ave. . . .	College ave. . . .	Public.	50	469	....
Delaware	Aldrich st. . . .	Pearl st.	Public.	40	451	....
Dell	Glen st.	Tufts st.	Public.	40	466	....
Derby	Temple st.	Wheatland st. . .	Public.	40	1,031	....
Dexter	Broadway	Medford line . . .	Private.	50	....	25
Dickinson	Springfield st. . .	Beacon st.	Public.	40	770	....
Dickson	Broadway	Fairmount ave. . .	Private.	40	....	271
Dimick	Concord ave. . . .	Calvin st.	Public.	40	957	....
Dix pl.	Linwood st. . . .	Southwesterly . .	Private.	10	....	100
Douglas ave. . .	Edgar ave. . . .	Southeasterly . .	Private.	30	....	162
Dover	Elm st.	Cambridge line . .	Public.	40	975	....
Dow	PowderHouseBd. .	Ware st.	Private.	40	....	257
Downer pl. . . .	Downer st. . . .	B. & L. R. R. . .	Private.	20	....	125
Downer	Nashua st. . . .	Southeasterly . .	Private.	20	....	120

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Dresden circle . . .	Cutter ave. . .	Westerly . . .	Private.	30	...	133
Durant st. . .	Washington st. .	Southerly. . .	Private.	20	....	200
Durham . . .	Beacon st. . .	Hanson st. . .	Public.	40	423	....
Dynamo . . .	Willow ave. . .	Whipple st. . .	Private.	30	....	255
Earle . . .	South st. . .	Fitchburg R. R. .	Private.	30	...	322
East Albion . . .	Mt. Vernon ave.	E. of Moreland st.	Private.	25	...	188
East Albion . . .	E. of Moreland st.	Medford line. . .	Private.	40	...	490
Eastman road. . .	Highland ave. .	Southwesterly . .	Public.	40	296	....
Edgar ave. . .	Main st. . .	Meacham st. . .	Private.	50	....	800
Edgemere st. . .	Washington st. .	Southerly . . .	Private.	40	....	500
*Edgeworth . . .	Mystic ave. . .	Melrose st. . .	Private.	50	....	1,380
Edmonds . . .	Broadway . . .	near Bonair st. .	Public.	40	376	....
Edmonton ave. .	Cross st. . .	Fellsway east . .	Private.	40	....	630
Electric ave. . .	Mason st. . .	Packard ave. . .	Private.	40	....	632
Electric ave. . .	Packard ave. . .	Curtis st. . .	Public.	40	681	....
Eliot . . .	Vine st. . .	Park st. . .	Public.	40	291	....
Ellington road .	Highland ave. .	Northeasterly . .	Private.	35	....	120
Ellington road .	West st. . .	Northwesterly . .	Private.	30	....	405
Ellsworth . . .	Cross st. . .	Rush st. . .	Public.	40	230	....
Elm ct. . .	Villa ave. . .	Northwesterly . .	Private.	18	....	70
Elm pl. . .	Harvard st. . .	Westerly . . .	Private.	30	....	190
Elm . . .	Somerville ave. .	Cherry st. . .	Public.	63	1,672	....
Elm . . .	Cherry st. . .	White st. . .	Public.	63 to 60	330	....
Elm . . .	White st. . .	Banks st. . .	Public.	60	660	....
Elm . . .	Banks st. . .	Beech st. . .	Public.	60 to 77.5	290	....
Elm . . .	Beech st. . .	Tenney st. . .	Public.	77.5 to 60	570	....
Elm . . .	Tenney st. . .	Davis sq. . .	Public.	60	1,429	....
Elmwood . . .	Holland st. . .	Cambridge line .	Public.	40	1,057	....
Elmwood ter. . .	Elmwood st. . .	Easterly . . .	Private.	20	....	190
Elston . . .	Elm st. . .	Summer st. . .	Public.	40	396	....
Emerson . . .	Everett st. . .	Newton st. . .	Private.	30	....	170
Emery . . .	Fitchburg R. R. .	South st. . .	Private.	30	....	335
Endicott ave. .	Broadway . . .	Woodstock st.(Ext'n)	Private.	40	....	800
Essex . . .	Medford st. . .	Richdale ave. .	Public.	40	232	....
Eustis . . .	Beacon st. . .	Cambridge line .	Private.	30	....	150
Everett ave. . .	Cross st. . .	Dana st. . .	Public.	40	845	....
Everett . . .	Webster ave. . .	Newton st. . .	Private.	30	....	350
Evergreen ave. .	Marshall st. . .	Sycamore st. . .	Public.	40	1,320	....
Evergreen sq. .	Porter st. . .	Southeasterly . .	Private.	8	....	200
Exchange pl. . .	Washington st. .	Southerly . . .	Private.	4.5	....	70
*Fairfax st. . .	North st. . .	Powder House Blvd	Private.	40	....	915
Fairlee . . .	Cherry st. . .	Northwesterly . .	Public.	30	144	....
Fairmount ave. .	Curtis st. . .	Northwesterly . .	Public.	40	679	....
Fairview ter. . .	Sycamore st. . .	Southwesterly . .	Private.	15	....	173
Farragut ave. .	Broadway . . .	Woodstock st.(Ext'n)	Public.	40	905	....
†Fellsway . . .	Mystic ave. . .	Mystic river . .	Public.	70 to 130	2,500	....
†Fellsway east .						
(Winthrop ave.)	Broadway . . .	Mystic ave. . .	Public.	50	1,222	....
†Fellsway west .						
(Chauncey ave.)	Broadway . . .	Mystic ave. . .	Public.	50	1,324	....
Fenwick . . .	Broadway . . .	Jagues st. . .	Public.	40	601	....
Fisk ave. . .	Hinckley st. . .	Lowell st. . .	Public.	20	484	....
Fitchburg ct. . .	Fitchburg st. . .	Southeasterly . .	Private.	10	....	225
Fitchburg . . .	Linwood st. . .	B. & L. R. R. .	Private.	40	....	400
Flint ave. . .	Flint st. . .	Northerly . . .	Public.	40	202	....
Flint . . .	Franklin st. . .	Aldrich st. . .	Public.	40	1,790	....
Florence . . .	Washington st. .	Perkins st. . .	Public.	40	1,304	....
Florence ter. . .	Jagues st. . .	Southwesterly . .	Private.	20	....	90
Forest . . .	Beacon st. . .	Cambridge line .	Public.	40	117	....
Forster . . .	Sycamore st. . .	Central st. . .	Private.	30	....	430
Fosket . . .	Willow ave. . .	Liberty ave. . .	Public.	40	668	....
Fountain ave. .	Cross st. . .	Glen st. . .	Public.	30	578	....
Francesca ave. .	College ave. . .	Liberty ave. . .	Public.	40	762	....
Francis . . .	Porter st. . .	Conwell st. . .	Public.	30	180	....
Franklin ave. .	Washington st. .	Franklin st. . .	Public.	20	575	....
Franklin pl. . .	Franklin st. . .	Southeasterly . .	Private.	15	....	100
Franklin . . .	Broadway . . .	Washington st. .	Public.	40+	2,316	....
Frederick ave. .	Willow ave. . .	Boston ave. . .	Public.	40	1,175	....

* Proposed.

† Metropolitan Park Commission Boulevard.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Fremont ave. . . .	Bowdoin st. . . .	Lincoln pk. . . .	Public.	30	232	....
Fremont	Main st. . . .	Near E. Albion st.	Public.	40	1,112	....
Fremont	Near E. Albion st.	Mystic ave. . . .	Private.	40	....	335
Garden ct. . . .	Somerville ave. . .	Fitchburg R. R. . .	Private.	25	....	370
Garfield ave. . . .	Broadway	Blakeley ave. . . .	Public.	40	447	....
Garfield ave. . . .	Blakeley ave. . . .	Middlesex ave. . . .	Private.	40	....	983
Garrison ave. . . .	Broadway	Land of City of Camb.	Public.	40	460	....
Garrison ave. . . .	Land City of Camb.	Woodstock st. (Ext'n)	Private.	40	....	390
George	Broadway	Lincoln ave. . . .	Public.	30	275	....
Gibbens	Central st. . . .	Benton road	Public.	40	492	....
Gibbens	Benton rd. . . .	Northwesterly . . .	Private.	40	....	133
Giles pk. . . .	Walnut st. . . .	Northwesterly . . .	Public.	32.71	167	....
Gill's ct. . . .	Franklin st. . . .	Westerly	Private.	10	....	100
Gilman	Cross st. . . .	Walnut st. . . .	Public.	40	1,430	....
Gilman ter. . . .	Pearl st. . . .	Northeasterly . . .	Public.	40	360	....
Gilson ter. . . .	Linden ave. . . .	Northwesterly . . .	Private.	20	....	124
Glen	Broadway	Tufts st. . . .	Public.	40	2,373	....
Glendale ave. . . .	Cameron ave. . . .	Yorktown st. . . .	Public.	40	410	....
Glenwood road . . .	Vernon st. . . .	Broadway	Public.	40	1,524	....
Glover circle	Meacham road . . .	Southeasterly . . .	Private.	20	....	110
*Gordon st. . . .	North st. . . .	Powder House Blvd	Private.	40	....	1,245
Gorham	Holland st. . . .	Howard st. . . .	Public.	40	763	....
Gould ave. . . .	Porter st. . . .	Southeasterly . . .	Private.	16	....	156
Gove ct. . . .	Cedar st. . . .	Southeasterly . . .	Private.	15	....	145
Grand View ave. . .	Walnut st. . . .	Vinal ave. . . .	Public.	40	542	....
Granite	Somerville ave. . .	Osgood st. . . .	Public.	40	411	....
Grant	Broadway	Mystic ave. . . .	Public.	40	1,405	....
Greene	Summer st. . . .	Laurel st. . . .	Public.	40	555	....
Greenville	Medford st. . . .	Munroe st. . . .	Public.	40	660	....
Greenville ter. . . .	Greenville st. . . .	Northerly	Private.	20	....	250
Greenwood ter. . . .	Beacon st. . . .	Northeasterly . . .	Private.	25	....	165
Gritter way	College ave. . . .	Pearson rd. . . .	Private.	4	....	320
Grove	Elm st. . . .	Morrison ave. . . .	Public.	40	996	....
Hadley ct. . . .	Franklin st. . . .	Westerly	Private.	20	....	150
Hall ave. . . .	College ave. . . .	Liberty ave. . . .	Public.	40	926	....
Hall	Cedar st. . . .	Cherry st. . . .	Public.	30	456	....
Hamlet	Highland ave. . . .	Boston st. . . .	Public.	30	616	....
Hamilton road	Russell road	North st. . . .	Private.	40	....	635
Hammond	Dickinson st. . . .	Concord ave. . . .	Public.	40	267	....
Hancock	Elm st. . . .	Highland ave. . . .	Public.	40	1,349	....
Hancock	Highland ave. . . .	Lexington ave. . . .	Public.	50	376	....
Hanson ave. . . .	Hanson st. . . .	Easterly	Private.	30	....	252
Hanson	Washington st. . . .	Skehan st. . . .	Public.	30	469	....
Hanson	Skehan st. . . .	Vine st. . . .	Public.	35	347	....
Hardan road	Powder House Bd.	Ware st. . . .	Private.	20 and 40	....	283
Harding	South st. . . .	Cambridge line . . .	Private.	30	....	115
Harold	Dimick st. . . .	Marion st. . . .	Public.	40	316	....
Harrison	Ivaloo st. . . .	Kent st. . . .	Public.	40	644	....
Harrison	Elmwood st. . . .	Southeasterly . . .	Private.	40	....	210
Harvard pl. . . .	Harvard st. . . .	Westerly	Private.	35	....	200
Harvard	Summer st. . . .	Beech st. . . .	Public.	40	717	....
Hathorn	Broadway	Arlington st. . . .	Public.	40	339	....
Hawkins	Somerville ave. . .	Washington st. . . .	Public.	40	330	....
Hawthorne	Willow ave. . . .	Cutter ave. . . .	Public.	30	807	....
Hayden ter. . . .	Linden ave. . . .	Easterly	Private.	20	....	120
Heath	Temple st. . . .	Bond st. . . .	Public.	45	1,043	....
Heath	Bond st. . . .	Mt. Vernon ave. . .	Private.	40	....	386
Heath	Mt. Vernon ave. . .	Moreland st. . . .	Public.	40	364	....
Henderson	Richardson st. . . .	B. & L. R. R. . . .	Public.	20	569	....
Hennessy ct. . . .	Medford st. . . .	Fisk ave. . . .	Private.	20	....	250
Henrietta ct. . . .	Somerville ave. . .	Northerly	Private.	8 and 20.	....	161
Henry ave. . . .	Highland ave. . . .	Lexington ave. . . .	Public.	40	290	....
Herbert	Chester st. . . .	Day st. . . .	Public.	40	337	....
Hersey	Berkeley st. . . .	Oxford st. . . .	Private.	40	....	230
Higgins ct. . . .	Mt. Vernon st. . . .	Westerly	Private.	16	....	149
*High	North st. . . .	Powder House Bd.	Private.	40	....	470
Highland ave. . . .	Medford st. . . .	Davis sq. . . .	Public.	60	9,135	....
Highland p'th, east	Morrison ave. . . .	Arlington Br. R. R.	Private.	10	....	107
Highland p'th, west	Morrison ave. . . .	Arlington Br. R. R.	Private.	10	....	108
†Highland road . . .	Morrison ave. . . .	Boston ave. . . .	Public.	30(70 wide)	1,499	....
Hill	Broadway	Fairmount ave. . . .	Public.	40	254	....

*Proposed.

†Roadway (only) accepted 30 feet wide, full width of street 70 feet.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Hillsdale rd. . . .	Conwell ave. . . .	Sunset rd. . . .	Private.	40	....	632
Hillside ave. . . .	Pearl st. . . .	Southwesterly . .	Private.	30	....	150
Hillside cir. . . .	Craigie st. . . .	Westerly	Private.	16	....	151
Hillside pk. . . .	Walnut st. . . .	Northwesterly . .	Public.	40	....	196
Hinckley	Broadway	B. & L. R. R. . .	Public.	30 and 35	1,081	....
Hodgdon pl. . . .	Dane ave. . . .	Northeasterly . .	Private.	about 20	....	150
Holland	Davis sq. . . .	Broadway	Public.	60	2,696	....
Holt's ave. . . .	Oak st. . . .	Southeasterly . .	Private.	10	....	100
Holyoke road . . .	Elm st. around to	Elm st. . . .	Public.	40	637	....
Homer sq. . . .	Bonner ave. . . .	Northwesterly . .	Public.	30+	200	....
Horace	South st. . . .	Fitchburg R. R. .	Private.	30	....	510
Houghton	Springfield st. .	Cambridge line. .	Public.	40	653	....
Howard	Thorndike st. . .	Gorham street . .	Public.	40	431	....
Howe	Marshall st. . . .	School st. . . .	Public.	40	445	....
Hudson. . . .	Central st. . . .	Cedar st. . . .	Public.	40	2,760	....
Hunting	South st. . . .	Cambridge line . .	Private.	30	....	125
Ibbetson	Somerville ave. .	Lowell st. . . .	Public.	40	802	....
Illinois ave. . . .	Broadway	Pennsylvania ave.	Private.	40	....	427
Indiana ave. . . .	Broadway	Pennsylvania ave.	Private.	40	....	384
Irving	Holland st. . . .	Broadway	Public.	40	1,180	....
Ivaloo	Beacon st. . . .	Park st. . . .	Public.	40	685	....
James	Pearl st. . . .	Veazie st. . . .	Public.	40	320	....
Jaques	Fellsway west . .	Temple st. . . .	Public.	40	1,182	....
Jaques	Temple st. . . .	Bond st. . . .	Public.	45	1,005	....
Jasper pl. . . .	Walnut st. . . .	Easterly	Private.	20	....	80
Jasper	Pearl st. . . .	Gilman st. . . .	Public.	40	283	....
Jay	Holland st. . . .	Howard st. . . .	Public.	40	534	....
Jerome ct. . . .	Sycamore st. . . .	Jerome st. . . .	Private.	10	....	150
Jerome	Montrose st. . . .	Jerome ct. . . .	Private.	20	....	125
Jerome	Lawrence rd. . .	Mystic Valley Park'y	Private.	40	....	495
Joseph	Newton st. . . .	Lincoln parkway .	Public.	40	458	....
Josephine ave. . .	Morrison ave. . .	Broadway	Public.	45	1,718	....
Joy	Washington st. .	Poplar st. . . .	Public.	30	1,121	....
Joy St. pl. . . .	Joy st. . . .	Southwesterly . .	Private.	30	....	175
Kenneson road . .	Broadway	Walnut road . . .	Private.	30	....	338
Kensington ave. . .	Broadway	Blakeley ave. . .	Public.	40	455	....
*Kensington ave. .	Blakeley ave. . .	Middlesex ave. . .	Private.	40	....	1,150
Kent ct. . . .	Kent st. . . .	Northerly	Private.	about 25	....	420
Kent	Somerville ave. .	Fitchburg R. R. .	Public.	40	292	....
Kent	Fitchburg R. R. .	Beacon st. . . .	Public.	25	386	....
Kenwood	College ave. . . .	Billingham st. . .	Public.	40	322	....
Kidder ave. . . .	College ave. . . .	Willow ave. . . .	Public.	40	1,329	....
Kilby	Somerville ave. .	Southwesterly . .	Private.	20	....	180
Kimball	Lowell st. . . .	Craigie st. . . .	Private.	40	....	303
Kingman road. . .	Washington st. .	Fitchburg R. R. .	Private.	25	....	400
Kingston	Meacham road . .	Cambridge line. .	Public.	40	647	....
Knapp	School st. . . .	Granite st. . . .	Public.	40	379	....
Knowlton	Tufts st. . . .	N'E'y line Est. 37	Public.	40	461	....
Knowlton	End of above . .	Oliver st. . . .	Private.	40	....	464
Lake	Hawkins st. . . .	Church st. . . .	Public.	40	840	....
Lamson ct. . . .	Linwood st. . . .	Poplar st. . . .	Private.	20	....	370
Landers	School st. . . .	Westerly	Public.	40	228	....
Langmaid ave. . .	Broadway	Heath st. . . .	Public.	30	353	....
Latin way	Talbot ave. . . .	Professors row . .	Private.	60	....	250
Laurel ave. . . .	Laurel st. . . .	Northwesterly . .	Private.	18	....	125
Laurel	Somerville ave. .	Summer st. . . .	Public.	40	983	....
Lawrence road . .	Medford line . .	Mystic Valley Park'y	Private.	40	....	585
Lawson ter. . . .	Putnam st. . . .	Easterly	Private.	5	....	200
Lee	Medford st. . . .	Richdale ave. . .	Public.	40	385	....
Leland	Washington st. .	Dane ave. . . .	Public.	40	359	....
Leon	Concord ave. . .	Dickinson st. . .	Public.	40	155	....
Leonard pl. . . .	Joy st. . . .	Northeasterly . .	Private.	13+	....	98
Leonard st. . . .	Broadway	Powder House Blvd.	Private.	40	....	445
Lesley ave. . . .	Highland ave. . .	Lexington ave. . .	Public.	40	333	....

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Leslie pl. . . .	Highland ave. . .	Northerly . . .	Private.	12	....	75
Lester ter. . . .	Meacham road . .	Northwesterly . .	Private.	20	....	190
Lexington ave. . .	Willow ave. . . .	Hancock st. . . .	Public.	50	624	....
Lexington ave. . .	Hancock st. . . .	Angle	Public	45 to 40	147	....
Lexington ave. . .	Angle	Cedar st.	Public.	40	578	....
Liberty ave. . . .	Broadway	Hall ave.	Public.	40	1,395	....
Liberty ave. . . .	Hall ave.	Appleton st. . . .	Public.	40	98	....
Liberty rd. . . .	Morrison ave. . .	Liberty ave. . . .	Private.	16	....	200
Lincoln ave. . . .	Lincoln st. . . .	Mt. Vernon st. . .	Public.	30	478	....
Lincoln parkway . .	Washington st. . .	Perry st.	Public.	40	1,520	....
Lincoln pl. . . .	Lincoln ave. . . .	Northerly	Private.	9	....	120
Lincoln	Broadway	Perkins st.	Public.	40	550	....
Linden ave. . . .	Elm st.	Summer st.	Public.	45	1,083	....
Linden ave. . . .	Summer st.	Northeasterly . . .	Private.	45	....	250
Linden circle . . .	Linden ave. . . .	Southeasterly . . .	Private.	24	....	120
Linden pl. . . .	Linden ave. . . .	Northwesterly . . .	Private.	20	....	160
Linden	Somerville ave. . .	Charlestown st. . .	Public.	33	587	....
Line	Washington st. . .	Cambridge line . .	Public.	33	1,727	....
Linehan ct. . . .	Linwood st. . . .	Chestnut st. . . .	Private.	about 15	....	200
Linwood pl. . . .	Linwood st. . . .	Southwesterly . . .	Private.	about 12	....	150
Linwood	Somerville ave. . .	Washington st. . .	Public.	50	2,114	....
London	Linwood st. . . .	B. & L. R. R. . . .	Private.	40	....	340
Loring	Somerville ave. . .	Osgood st.	Public.	40	413	....
Louisburg pl. . . .	Autumn st.	Easterly	Private.	13	....	90
Lovell	Broadway	Electric ave. . . .	Public.	40	385	....
Lowden ave. . . .	Broadway	Fosket st.	Public.	40	1,247	....
Lowell	Somerville ave. . .	Summer st.	Public.	36	1,259	....
Lowell	Summer st.	Medford st.	Public.	40	3,472	....
Lowell circle . . .	Lowell st.	Westerly	Private.	11 and 27.5	....	143
Lowell ter. . . .	Lowell st.	Northwesterly . . .	Private.	20	....	150
Madison	School st.	Sycamore st.	Public.	40	891	....
Main	Broadway	Medford line . . .	Public.	50	966	....
Maine ave.	Mystic ave.	Pennsylvania ave. .	Private.	40	....	379
*Malden	Mystic ave.	Melrose st.	Private.	50	....	1,360
Mallet	Willow ave. . . .	Liberty ave. . . .	Public.	40	657	....
Malloy ct.	Somerville ave. . .	Merriam ave. . . .	Private.	30	....	255
Malvern ave. . . .	Cameron ave. . . .	Yorktown st. . . .	Public.	40	410	....
Manila road	Beacon st.	Sacramento st. . .	Private.	40	....	408
Mansfield	Somerville ave. . .	Washington st. . .	Public.	40	735	....
Maple ave.	School st.	Southeasterly . . .	Private.	40	....	300
Maple pl.	Marshall st. . . .	Maple ave.	Private.	5	....	125
Maple	Poplar st.	Medford st.	Public.	30	699	....
Mardel circle . . .	Spring st.	Northwesterly . . .	Private.	8	....	140
Marion	Concord ave. . . .	Dimick st.	Public.	40	1,141	....
Marshall	Broadway	Pearl st.	Public.	40	1,650	....
Mason	Broadway	Powder House Blvd.	Private.	40	....	683
May pl.	Hawkins st.	Easterly	Private.	12	....	160
McCarroll ct. . . .	Clyde st.	Southwesterly . . .	Private.	25	....	75
McCulpe pl. . . .	Medford st.	Easterly	Private.	10	....	110
McGregor ave. . . .	Wigglesworth st. .	Walnut st.	Private.	13	....	302
Meacham road . . .	Dover st.	Cambridge line . .	Public.	40	1,060	....
Meacham	Mt. Vernon ave. . .	Medford line . . .	Public.	40	777	....
Mead	Cameron ave. . . .	Moore st.	Private.	40	....	340
Medford	Cambridge line . .	Central st.	Public.	50	8,047	....
Medford	Central st.	Broadway	Public.	55	1,985	....
Melrose	Mystic ave.	Fellsway	Private.	50	....	2,310
Melvin	Broadway	Bonair st.	Public.	40	487	....
Merriam ave. . . .	Merriam st.	Malloy ct.	Private.	15	....	255
Merriam	Washington st. . .	Somerville ave. . .	Public.	40	360	....
Merriam	Somerville ave. . .	Charlestown st. . .	Public.	30	510	....
Michigan ave. . . .	Broadway	Pennsylvania ave. .	Private.	40	....	470
Middlesex ave. . .	Mystic ave.	Fellsway	Public.	60	2,304	....
Milk pl.	Somerville ave. . .	Southwesterly . . .	Private.	about 30	....	100
Miller	Sacramento st. . .	Beacon st.	Private.	33	....	465
Milton	Orchard st.	Cambridge line . .	Public	40	223	....
Miner	Vernon st.	Ames st.	Public.	40	244	....
Minnesota ave. . .	Broadway	Pennsylvania ave. .	Private.	40	....	525
Mondamin ct. . . .	Ivaloo st.	Harrison st.	Private.	25	....	250

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Monmouth . . .	Central st. . .	Westerly . . .	Public.	40	267	...
Monmouth . . .	End of above . .	Harvard st. . .	Private.	35	....	200
Montgomery ave.	Broadway . . .	Wellington ave. .	Public.	40	265	....
Montrose ct. . .	Montrose st. . .	B. & L. R. R. . .	Private.	12	....	110
Montrose . . .	School st. . .	Sycamore st. . .	Public.	40	886	....
Montvale . . .	Edgemere st. . .	Easterly . . .	Private.	40	....	416
Moore . . .	Holland st. . .	Mead st. . .	Public.	40	695	....
Moreland . . .	Main st. . .	Mystic ave. . .	Public.	40	1,471	....
Morgan . . .	Beacon st. . .	Park st. . .	Public.	40	377	....
Morrison ave. . .	Cedar st. . .	Willow ave. . .	Public.	50	1,366	....
Morrison ave. . .	Willow ave. . .	College ave. . .	Public.	40	1,690	....
Morrison pl. . .	Morrison ave. . .	Northerly . . .	Private.	20	....	190
Morrison pl. . .	Morrison pl. . .	Easterly . . .	Private.	15	....	175
Mortimer pl. . .	Marshall st. . .	Walter st. . .	Private.	20	....	280
Morton . . .	Glen st. . .	Knowlton st. . .	Public.	40	287	....
Mossland . . .	Somerville ave. .	Elm st. . .	Public.	40	377	....
Mountain ave. .	Linden ave. . .	Porter st. . .	Private.	22	....	310
Mousal pl. . .	North Union st. .	B. & M. R. R. . .	Private.	20	....	200
Mt. Pleasant ct.	Perkins st. . .	Southwesterly . .	Private.	40	....	260
Mt. Pleasant . .	Broadway . . .	Perkins st. . .	Public.	33	584	....
*Mt. Vernon ave.	Meacham st. . .	Mystic ave. . .	Private.	50	....	764
Mt. Vernon . . .	Washington st. .	Pearl st. . .	Public.	40	600	....
Mt. Vernon . . .	Pearl st. . .	Perkins st. . .	Public.	50	473	....
Mt. Vernon . . .	Perkins st. . .	Broadway . . .	Public.	40	590	....
Munroe . . .	Walnut st. . .	Easterly . . .	Public.	40	375	....
Munroe . . .	End of above . .	Boston st. . .	Public.	50	1,214	....
Murdock . . .	Cedar st. . .	Clyde st. . .	Private.	30	....	900
Murray . . .	Washington st. .	Southerly . . .	Private.	30	....	250
Museum . . .	Beacon st. . .	Cambridge line .	Public.	40	164	....
Myrtle ct. . .	Myrtle st. . .	Easterly . . .	Private.	10	....	100
Myrtle pl. . .	Myrtle st. . .	Westerly . . .	Private.	20+	....	120
Myrtle . . .	Washington st. .	Perkins st. . .	Public.	40	1,423	....
Mystic ave. . .	Charlestown line	Union st. . .	Public.	60	378	....
†Mystic ave. . .	Union st. . .	Medford line . .	Public.	66	6,938	....
Mystic . . .	Benedict st. . .	Mystic ave. . .	Public.	40	336	....
‡Mystic Val. Pky.	Medford line . .	Arlington line . .	Public.	60	2,330	....
Nashua . . .	Richardson st. .	B. & L. R. R. . .	Public.	35	637	....
Nevada ave. . .	Village st. . .	Hanson st. . .	Private.	20	....	200
Newberne . . .	Appleton st. . .	Morrison ave. . .	Public.	40	200	....
Newberne . . .	Morrison ave. . .	Arlington Br. R.R.	Private.	40	....	173
Newbury park . .	Newbury st. . .	Southeasterly . .	Private.	55	....	63
Newbury . . .	Holland st. . .	Cambridge line .	Public.	40	1,260	....
N. Hampshire ave	Mystic ave. . .	Pennsylvania ave.	Private.	40	....	406
Newman pl. . .	Cedar st. . .	Southeasterly . .	Private.	15	....	100
Newton pl. . .	Newton st. . .	Easterly . . .	Private.	about 10	....	100
Newton . . .	Prospect st. . .	Webster ave. . .	Public.	25	470	....
Newton . . .	Webster ave. . .	Concord ave. . .	Public.	40+	637	....
Norfolk . . .	Webster ave. . .	Cambridge line .	Public.	40	283	....
North . . .	Broadway . . .	Medford line b. 17	Public.	40	1,961	....
North . . .	Medford line b. 17	Medford line b. 18	Public.	37 to 42	649	....
North Union . .	Mystic ave. . .	Northeasterly . .	Private.	30	....	600
Norton . . .	Nashua st. . .	Southeasterly . .	Private.	20	....	200
Norwood ave. . .	Broadway . . .	Medford st. . .	Public.	40	350	....
Oak . . .	Prospect st. . .	Angle . . .	Public.	40	665	....
Oak . . .	Angle . . .	Cambridge line .	Public.	30	563	....
Oak St. pl. . .	Oak st. . .	Northerly . . .	Private.	4	....	85
Oak ter. . .	Elm st. . .	Northeasterly . .	Private.	10+	....	90
Oakland ave. . .	Marshall st. . .	School st. . .	Public.	40	440	....
Olive ave. . .	Linden ave. . .	Peterson ter. . .	Private.	25	....	155
Olive sq. . .	Lake st. . .	Southerly . . .	Private.	about 15	....	100
Oliver . . .	Franklin st. . .	Cross st. . .	Public.	40	1,085	....
Orchard . . .	Cambridge line .	Meacham road . .	Public.	40	1,567	....
Osgood . . .	Granite st. . .	Easterly & west'y	Private.	40	....	450
Ossipee road . .	Mason st. . .	Curtis st. . .	Public.	40	1,375	....
Otis . . .	Cross st. . .	Wigglesworth st. .	Public.	40	1,200	....
Oxford . . .	School st. . .	Central st. . .	Public.	35	1,361	....
Oxford . . .	Beacon st. . .	Cambridge line . .	Public.	50	100	....

*Proposed.

†State Highway Austin St. to Medford line.

‡Metropolitan Park Commission Boulevard.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Packard ave. . .	Broadway . . .	Professors row .	Public.	60	1,758	....
Packard ave. . .	Professors row .	Medford line . .	Private.	60	....	240
Palmer ave. . .	Franklin st. . .	Northwesterly . .	Private.	20	....	200
Park ave. . . .	College ave. . .	Wallace st. . . .	Public.	40	467	....
Park pl.	Laurel st. . . .	Easterly	Private.	30	....	522
Park pl.	Park pl.	Northeasterly . .	Private.	20	....	120
Park	Somerville ave. .	Beacon st. . . .	Public.	50	1,238	....
Parkdale	Washington st. .	Montvale st. . .	Private.	....	....	500
Parker pl. . . .	Porter st.	Northwesterly . .	Private.	20	....	150
Parker	Washington st. .	Fremont ave. . . .	Public.	35	203	....
Partridge ave. .	Vernon st. . . .	Broadway	Public.	40	1,467	....
Patten ct. . . .	Cutter st.	Southeasterly . .	Private.	8	....	100
Paulina	Broadway	Holland st. . . .	Public.	40	769	....
Pearl.	Crescent st. . .	Mt. Vernon st. .	Public.	37	341	....
Pearl.	Mt. Vernon st. .	Franklin st. . . .	Public.	50	957	....
Pearl.	Franklin st. . .	Cross st.	Public.	40	1,060	....
Pearl.	Cross st.	Medford st. . . .	Public.	50	2,447	....
Pearl St. pl. . .	Pearl st.	Northeasterly . .	Public.	20	166	....
Pearl ter. . . .	Pearl st.	Northerly	Private.	23	....	161
Pearson ave. . .	Morrison ave. . .	Boston ave. . . .	Public.	45	1,320	....
Pearson road . .	Broadway	Dearborn road . .	Public.	40	1,713	....
Pembroke ct. . .	Pembroke st. . .	Southwesterly . .	Private.	25	....	130
Pembroke	Central st. . . .	Sycamore st. . . .	Public.	40	430	....
Pennsylvania ave.	Broadway	Wisconsin ave. . .	Private.	50	....	1262
Pennsylvania ave.	Wisconsin ave. .	Cross st.	Private.	40	....	200
Perkins pl. . . .	Perkins st. . . .	Northeasterly . .	Private.	20	....	200
Perkins	Franklin st. . .	Charlestown line .	Public.	40	1,336	....
Perry	Washington st. .	Lincoln parkway .	Public.	40	606	....
Peterson ter. . .	Porter st.	Olive ave.	Private.	7.5	....	155
Pinckney pl. . .	Pinckney st. . .	Southeasterly . .	Private.	24	....	125
Pinckney	Washington st. .	Perkins st. . . .	Public.	40	1,186	....
Piper ave. . . .	Cedar st.	Westerly	Private.	20	....	461
Pitman	Beech st.	Spring st.	Private.	30	....	380
Pitman	Spring st. . . .	Belmont st. . . .	Private.	26	....	390
Pleasant ave. . .	Walnut st. . . .	Vinal ave.	Public.	40	543	....
Poplar ct. . . .	Poplar st.	Southeasterly . .	Private.	10	....	80
Poplar	Somerville ave. .	Linwood st. . . .	Public.	30	351	....
Poplar	Linwood st. . .	Joy st.	Public.	35	315	....
Poplar	Joy st.	B. & L. R. R. . .	Private.	35	....	65
Porter ave. . . .	Porter st.	Northwesterly . .	Private.	20	....	220
Porter	Elm st.	Mountain ave. . .	Public.	45	1,622	....
Porter	Mountain ave. .	Highland ave. . .	Public.	40	415	....
Powder house boulevard . . .	Powder house square	Northwesterly, Mystic river and Medford line . .	Public.	80	7,200	....
Powder house ter.	Kidder ave. . . .	Liberty ave. . . .	Public.	40	585	....
Prentiss	Beacon st. . . .	Cambridge Line .	Private.	35	....	150
Prescott	Summer st. . . .	Highland ave. . .	Public.	50	1,110	....
Preston road . .	School st. . . .	Summer st. . . .	Public.	40	839	....
Prichard ave. . .	Morrison ave. .	Boston ave. . . .	Public.	40	1,191	....
Princeton	Alpine st. . . .	Lowell st.	Public.	40	648	....
Princeton	Lowell st. . . .	Centre st.	Private.	40	....	540
Professors row .	College ave. . . .	Curtis st.	Public.	40	2,000	....
Prospect	Washington st. .	Cambridge line . .	Public.	50	2,071	....
Prospect Hill av.	Medford st. . . .	Munroe st.	Public.	40	597	....
Prospect Hill p'k'y	Munroe st. . . .	Stone ave.	Public.	40	400	....
Prospect pl. . .	Prospect st. . . .	Newton st.	Private.	20	....	130
Putnam	Summer st. . . .	Highland ave. . .	Public.	50	1,262	....
Quincy	Somerville ave. .	Summer st.	Public.	40	781	....
Randolph pl. . .	Cross st.	Westerly	Private.	15	....	244
Raymond ave. . .	Curtis st.	North st.	Public.	40	1,345	....
Record ct. . . .	Broadway	Southwesterly . .	Private.	10	....	110
Reed's ct.	Oliver st.	Southwesterly . .	Private.	20	....	105
Remick ct. . . .	Cutter st.	Southeasterly . .	Private.	10	....	100
Renfrew st. . . .	Washington st. .	Montvale st. . .	Private.	40	....	450
Rhode Island ave.	Mystic ave. . . .	Pennsylvania ave. .	Public.	40	460	....
Richardson . . .	Lowell st. . . .	Hinckley st. . . .	Public.	35	467	....
Richardson ter. .	Richardson st. .	Northeasterly . .	Private.	20	....	135
Richdale ave. . .	School st. . . .	Sycamore st. . . .	Public.	40	875	....
Richmond hi'l's {	Madison st. . . .	Southerly 146' . .	Private.	30	....	146
	Madison st. s'ly 146	Highland ave. . .	Private.	10	....	140

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Roberts	Hinckley st. . .	Northwesterly . .	Private.	20	....	170
Robinson	Central st. . . .	Bartlett st. . . .	Public.	40	582	....
Rogers ave. . . .	Morrison ave. . .	Boston ave. . . .	Public.	45	1,682	....
Roland st. . . .	Waverly st. . . .	Boston line . . .	Private.	40	....	100
Roseland	Beacon st. . . .	Cambridge line . .	Public.	40	121	....
Rossmore	Somerville ave. . .	Washington st. . .	Public.	40	534	....
Royce pl.	Bonair st.	Northeasterly . . .	Private.	15+	....	175
Rush	Broadway	Flint st.	Public.	40	1,400	....
Russell road . . .	Broadway	near P. H. boulevard	Public.	40	559	....
Russell	Elm st.	Cambridge line . .	Public.	40	700	....
Sacramento . . .	Somerville ave. . .	Fitchburg R. R. . .	Public.	40	80	....
Sacramento . . .	Fitchburg R. R. . .	Beacon st.	Public.	40	290	....
Sacramento . . .	Beacon st.	Cambridge line . .	Private.	40	....	156
Sanborn ave. . .	Warren ave. . . .	Walnut st.	Public.	40	280	....
Sanborn ct. . . .	Washington st. . .	Northwesterly . .	Private.	30	....	176
Sargent ave. . .	Broadway	Walnut st.	Public.	40	1,075	....
Sartwell ave. . .	Cedar st.	Cherry st.	Public.	35	427	....
Sawyer ave. . . .	Packard ave. . . .	Curtis st.	Private.	40	....	690
School	Somerville ave. . .	Highland ave. . . .	Public.	40	1,901	....
School	Highland ave. . .	Broadway	Public.	50	2,500	....
Sellon pl.	Marshall st. . . .	Northwesterly . .	Private.	12	....	120
Seven Pines ave.	Cameron ave. . . .	Cambridge line . .	Public.	40	92	....
Sewall ct.	Sewall st.	Southwesterly . .	Private.	25	....	190
Sewall	Grant st.	Temple st.	Public.	40	615	....
Shawmut pl. . . .	Shawmut st. . . .	Alston st.	Public.	30	190	....
Shawmut	Washington st. . .	Cross st.	Public.	40	575	....
Shedd	Somerville ave. . .	Merriam ave. . . .	Private.	40	....	310
Sherman ct. . . .	Sargent ave. . . .	Marshall st. . . .	Private.	10	....	250
Sibley ct.	Cutter st.	Northwesterly . .	Private.	10	....	100
Sibley pl.	Cutter st.	Northwesterly . .	Private.	10	....	100
Simpson ave. . .	Broadway	Holland st.	Private.	40	....	825
Skehan	Dane st.	Hanson st.	Public.	30	306	....
Skehan	Hanson	Durham	Private.	30	....	414
Skilton ave. . .	Pearl st. around to	Pearl st.	Private.	40	....	540
Smith ave. . . .	Beacon st.	Line st.	Private.	25+	....	200
Snow ter.	Jaques st.	Southwesterly . .	Private.	16	....	120
Somerville ave. .	E. Camb. line . . .	Union sq.	Public.	75	4,325	....
Somerville ave. .	Union sq.	N. Camb. line . . .	Public.	70	6,793	....
South	Medford st. . . .	Water st.	Public.	30	989	....
Spencer ave. . .	Cedar st.	Hancock st.	Public.	40	727	....
Spring ct.	Somerville ave. . .	Westerly	Private.	20	....	200
Spring	Somerville ave. . .	Summer st.	Public.	40	1,220	....
Springfield . . .	Concord ave. . . .	Cambridge line . .	Public.	40	788	....
Spring Hill ter. .	Highland ave. . . .	Belmont st.	Private.	20	....	670
Stanford ter. . .	Beacon st.	Northeasterly . .	Private.	20	....	200
Steeves circle . .	Cherry st.	Easterly	Private.	15	....	120
*Sterling st. . .	North st.	Powder House Bd. .	Private.	40	....	800
Stickney ave. . .	Marshall st. . . .	School st.	Public.	40	458	....
St. James ave. . .	Elm st.	Summer st.	Public.	40	488	....
St. James ave. ext.	Summer st.	Northeasterly . .	Public.	30	125	....
Stone ave.	Union sq.	Columbus ave. . .	Public.	40	676	....
Stone ave.	Columbus ave. . .	Prospect Hill p'k'y	Public.	38	107	....
Stone pl.	Stone ave.	Southeasterly . .	Private.	30	....	145
Summer	Bow st.	Elm st.	Public.	45	7,900	....
Summit ave. . . .	Walnut st.	Vinal ave.	Public.	45	532	....
Summit	College ave. . . .	Billingham st. . . .	Public.	40	262	....
Sumner	Hinckley st. . . .	Northwesterly . .	Private.	20	....	175
Sunnyside ave. .	Walnut st.	Wigglesworth st. .	Public.	25 to 35	306	....
Sunset rd.	Curtis st.	Hillsdale road . .	Private.	40	....	653
Sycamore	Broadway	Medford st.	Public.	45	1,275	....
Sycamore	Medford st. . . .	B. & L. R. R. . . .	Public.	40	667	....
Sycamore	B. & L. R. R. . .	Highland ave. . . .	Public.	35	722	....
Sydney	Grant st.	Temple st.	Public.	40	679	....
Talbot ave. . . .	Packard ave. . . .	College ave. . . .	Private.	50	....	1,409
*Tannery (Ext'n)	Cambridge line . .	Woodstock st (Ext'n)	Private.	40	....	160
Taunton.	Wyatt st.	Easterly to angle .	Private.	30	....	170
Taunton	Angle	Marion st.	Private.	20	....	95
Taylor pl.	Somerville ave . .	Southerly	Private.	15	....	200

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Taylor	Mystic ave. . . .	Sydney st. . . .	Public.	40	309	....
Teele ave. . . .	Packard ave. . . .	Curtis st. . . .	Public.	40	685	....
Temple	Broadway	Mystic ave. . . .	Public.	66	1,637	....
Tenney ct. . . .	Mystic ave. . . .	Northeasterly	Private.	30	....	400
Tennyson	Forster st. . . .	Pembroke st. . . .	Public.	40	922	....
Thorndike	Holland st. . . .	Arl'ngt'n Br. R. R. . . .	Public.	40	465	....
Thorndike	Arl'gt'n Br. R. R. . . .	Kingston st. . . .	Public.	40	115	....
Thorpe	Highland ave. . . .	Southwesterly	Public.	30	468	....
Thurston	Broadway	Richdale ave. . . .	Public.	40	1,660	....
Timmins pl. . . .	Dane st. . . .	Westerly	Private.	3.5	....	97
Tower ct. . . .	Tyler st. . . .	Northeasterly	Private.	25	....	150
Tower	Crown st. . . .	Highland ave. . . .	Public.	40	559	....
Tremont pl. . . .	Tremont st. . . .	Southeasterly	Private.	about 10	....	75
Tremont	Webster ave. . . .	Cambridge line	Public.	40	589	....
Trull	Vernon st. . . .	Medford st. . . .	Public.	40	1,050	....
Trull lane	Highland ave. . . .	Oxford st. . . .	Private.	15	....	200
Tufts parkway	College ave. . . .	College ave. . . .	Public.	22	900	....
Tufts	Washington st. . . .	Cross st. . . .	Public.	40	982	....
Tyler	Vine st. . . .	Dane st. . . .	Public.	40	404	....
Union	Broadway	Mystic ave. . . .	Public.	40	345	....
Union pl. . . .	Linwood st. . . .	Southwesterly	Private.	10	....	100
Upland Park	Main st. . . .	Southwesterly	Private.	20	....	175
Veazie	Walnut st. . . .	Bradley st. . . .	Public.	35	392	....
Veazie	Bradley st. . . .	Marshall st. . . .	Public.	40	261	....
Vermont ave. . . .	Mystic ave. . . .	Pennsylvania ave. . . .	Private.	40	....	433
Vernon	Central st. . . .	Glenwood road	Public.	40	764	....
Vernon	Glenwood road	Partridge ave. . . .	Public.	40 to 30	190	....
Vernon	Partridge ave. . . .	Lowell st. . . .	Public.	30	434	....
Victoria	Broadway	Cambridge line	Public.	40	1,036	....
Villa ave. . . .	Winslow ave. . . .	Arlington Br. R. R. . . .	Private.	35	....	200
Village	Dane st. . . .	Vine st. . . .	Private.	25	....	370
Vinal ave. . . .	Summer st. . . .	Highland ave. . . .	Public.	45	1,425	....
Vinal	Richardson st. . . .	Northeasterly	Private.	20	....	200
Vine ct. . . .	Vine st. . . .	Northwesterly	Private.	25	....	140
Vine	Somerville ave. . . .	Fitchburg R. R. . . .	Public.	40	540	....
Vine	Fitchburg R. R. . . .	Hanson st. . . .	Private.	40	....	222
Vine	Hanson st. . . .	Beacon st. . . .	Public.	30	662	....
Virginia	Aldrich st. . . .	Jasper st. . . .	Public.	40	405	....
Wade ct. . . .	Cedar st. . . .	Westerly	Private.	20	....	180
Waldo ave. . . .	Beacon st. . . .	Dimick st. . . .	Private.	40	....	277
Waldo	Highland ave. . . .	Hudson st. . . .	Public.	40	287	....
Walker st. . . .	Broadway	Leonard st. . . .	Private.	40	....	713
Wallace	Holland st. . . .	Broadway	Public.	40	1,342	....
Walnut	Bow st. . . .	Broadway	Public.	40	3,948	....
Walnut road	Walnut st. . . .	Kenneson road	Public.	40	270	....
Walter pl. . . .	Walter st. . . .	Southwesterly	Private.	40	....	222
Walter	Walnut st. . . .	{ about 100 ft. N. } { of Bradley st. }	Public.	40	548	....
Ward	Medford st. . . .	Emery st. . . .	Private.	30	....	450
Ware	Curtis st. . . .	Dow st. . . .	Private.	40	....	680
Warner	Powder House sq. . . .	Medford line	Public.	60	500	....
Warren ave. . . .	Union sq. . . .	Columbus ave. . . .	Public.	40	663	....
Warren	Medford st. . . .	Cambridge line	Public.	30 to 40	109	....
Warwick place	Warwick st. . . .	Northeasterly	Private.	15	....	150
Warwick	Cedar st. . . .	Warwick pl. . . .	Public.	40	665	....
Washington ave. . . .	Washington st. . . .	Northerly	Private.	18	....	350
Washington pl. . . .	Washington st. . . .	Southerly	Private.	about 7.5	....	114
Washington	Charlest'n line	Franklin ave. . . .	Public.	75	1,060	....
Washington	Franklin ave. . . .	Fitchburg R. R. . . .	Public.	60 to 100	3,977	....
Washington	Fitchburg R. R. . . .	Cambridge line	Public.	60	2,344	....
Water	South st. . . .	Northerly	Public.	25	366	....
Waterhouse	Broadway	Cambridge line	Public.	40	987	....
Watson	Broadway	Fairmount ave. . . .	Private.	40	....	236
Waverly	Washington st. . . .	Roland st. . . .	Private.	35	....	200
Webster ave. . . .	Union sq. . . .	Cambridge line	Public.	49.5	1,955	....
Webster	Franklin st. . . .	Cross st. . . .	Public.	40	1,034	....
Wellington ave. . . .	Walnut st. . . .	Montgomery ave. . . .	Public.	40	215	....
Wellington ave. . . .	Montgomery ave. . . .	Easterly	Private.	40	....	85

Table Showing the Location, Length and Width of Public and Private Streets. — Concluded.

STREET.	FROM.	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Wesley pk. . . .	Wesley sq. . . .	Northeasterly . .	Public.	40	405	....
Wesley	Pearl st. . . .	Otis st. . . .	Public.	40	515	....
West	Hawthorne st. . .	Highland ave. . .	Public.	30	192	....
West	Highland ave. . .	Arlington Br. R. R.	Private.	30	....	266
West Adams . . .	Conwell ave. . . .	Medford line . . .	Private.	40	....	710
Westminster . . .	Broadway	Electric ave. . . .	Public.	40	376	....
Weston ave. . . .	Clarendon ave. . .	Broadway	Private.	40	....	525
West Quincy . . .	Bailey st. . . .	Medford line . . .	Private.	40	....	291
Westwood road . .	Central st. . . .	Benton road . . .	Public.	40	489	....
Wheatland	Broadway	Mystic ave. . . .	Public.	40	1,364	....
Wheeler	Pinckney st. . . .	Mt. Vernon st. . .	Public.	40	269	....
Whipple	Highland ave. . . .	Arlington Br. R. R.	Private.	30	....	318
† White	Flm st. . . .	Cambridge line . .	Public.	..	307	....
White St. pl. . . .	White st. . . .	Southeasterly . . .	Private.	20	....	200
Whitfield road . .	Packard ave. . . .	Curtis st. . . .	Private.	40	....	684
Wihman st. . . .	Mason st. . . .	Packard ave. . . .	Private.	40	....	632
Wigglesworth . . .	Bonair st. . . .	Pearl st. . . .	Public.	40	744	....
William	Chandler st. . . .	College ave. . . .	Public.	40	381	....
William	Broadway	Medford line . . .	Private.	50	....	45
Williams ct. . . .	Porter st. . . .	Northwesterly . . .	Private.	30	....	150
Willoughby	Central st. . . .	Sycamore st. . . .	Public.	40	427	....
Willow ave. . . .	Elm st. . . .	Broadway	Public.	50	3,534	....
Willow pl. . . .	Cambridge line . .	South st. . . .	Private.	25	....	150
Wilson ave. . . .	Broadway	B. & L. R. R. . .	Public.	20	307	....
Wilton	Lowell st. . . .	Hinckley st. . . .	Public.	35	470	....
Winchester	Broadway	Medford line . . .	Private.	40	....	65
Windom	Elm st. . . .	Summer st. . . .	Public.	40	300	....
Windsor road . . .	Willow ave. . . .	Hancock st. . . .	Public.	40	575	....
Windsor st. (Extn.)	Windsor st., Camb.	Fitchburg R. R. . .	Private.	20	....	530
Winslow ave. . . .	College ave. . . .	Clifton st. . . .	Public.	40	1,123	....
Winter	College ave. . . .	Holland st. . . .	Public.	30	402	....
Winter Hill cir. .	Broadway	Northeasterly . . .	Private.	25	....	177
Winthrop ave. . .	(Extension.) . . .	Mystic ave. . . .	Private.	40	....	583
Wisconsin ave. . .	Broadway	Pennsylvania ave. .	Public.	50	499	....
Woodbine	Centre st. . . .	Lowell st. . . .	Private.	30	....	600
* Woods	North st. . . .	Powder House Blvd.	Private.	40	....	1,135
Woodstock	Victoria st. . . .	Alewife brook . . .	Public.	40 to 32	403	....
* Woodstock . . .	(Extension.) . . .	Victoria st. . . .	Private.	40	....	920
Wyatt circle . . .	Wyatt st. around to	Wyatt st. . . .	Private.	20	....	315
Wyatt	Concord ave. . . .	Lincoln parkway . .	Public.	40	496	....
Yorktown	Cambridge line . .	{ N. E. line Mal- }	Public.	40	294	....
Yorktown	{ N. E. line }	{ vern ave. }	Private.	40	....	100
Yorktown	{ Malvern ave. }	Northerly	Private.	40	....	100

*Proposed.

†Sidewalk in Somerville.

Court	Albion st. . . .	Centre st. . . .	Private.	12	....	218
Court	11 Albion st. . . .	Northeasterly . . .	Private.	9	....	170
Court	21 Albion st. . . .	Northeasterly . . .	Private.	10	....	100
Court	292 Broadway . . .	Southwesterly . . .	Private.	15	....	96
Court	612 Broadway . . .	Southwesterly . . .	Private.	20	....	138
Court	113 Central st. . .	Southeasterly . . .	Private.	20	....	150
Court	227 Columbia st. .	Northwesterly . . .	Private.	10	....	117
Court	Conlon ct. . . .	Windsor st. (Extn.)	Private.	20	....	240
Court	36 Craigie st. . . .	Westerly	Private.	25	....	126
Court	58 Dane st. . . .	Easterly	Private.	10	....	70
Court	20 Dimick st. . . .	Southwesterly . . .	Private.	39.25	....	136
Court	Buena Vista rd. . .	Southeasterly . . .	Private.	15	....	151
Court	66 Lowell st. . . .	Westerly	Private.	25	....	101
Court	78 Lowell st. . . .	Westerly	Private.	25	....	101
Court	101 Medford st. . .	Easterly	Private.	8	....	75
Court	10 Stone ave . . .	Northwesterly . . .	Private.	20	....	113
Court	Windsor st. (Extn.)	East'y and West'y	Private.	20	....	370
Total					420,615	102,479

Public, 79,662 miles (includes 3,294 miles boulevards and 1.16 miles State Highway); private, 19,400 miles.

Total length of streets in the city, 99,062 miles.

REPORT OF THE STREET COMMISSIONER.

OFFICE OF THE STREET COMMISSIONER, }
CITY HALL, SOMERVILLE, January 1, 1914. }

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—I most respectfully submit the thirty-eighth annual report, containing a brief summary of the principal work performed by the highway department during the year 1913, with recommendations for necessary improvements and additions for the coming year.

This department has charge of the construction, alteration, repair, maintenance, and management of ways, streets, sidewalks and bridges, also the setting out and care of shade trees, the suppression of gypsy and brown-tail moths, elm-leaf beetles, street watering and oiling, and the collection and disposal of ashes, garbage and refuse.

Highways Maintenance.

A large amount of this appropriation is expended in the running and operating of the department, thus leaving a small amount for resurfacing streets. By the construction of permanent paving on the main streets and with the good material excavated from them, many of our side streets could be resurfaced with this material, with tarvia or heavy oil for a wearing surface, at a small expense.

Although the mileage of streets to be cared for has steadily increased, the hours of labor shortened and wages increased, there has been practically no increase in the highways maintenance appropriation. The old method of patching streets with loose crushed stone has been abandoned, and the more modern way of patching with stone, gravel, tar or oil mixed, has been adopted with good success.

On all side streets constructed or resurfaced, tarvia was used for a wearing surface.

The average cost of macadam and tarvia construction on side streets was \$1.18 per square yard, which includes granite paving block gutters three feet wide.

Highways Construction.

The department is doing its utmost to meet the demands for good streets, and the improvements made the last few years show good results and approval from the tax-payers.

With the advent of the automobile and auto truck, streets must be constructed with some kind of permanent paving, and after construction, should receive careful attention at all times.

We must not lose sight of the fact that smooth paving, which is pleasing to the automobilist, is more or less slippery for horses. What is satisfactory to one is unsatisfactory to others.

The average cost of macadam and tarvia on a concrete base was \$1.70 per square yard. A contractor laid the concrete at \$.84 per square yard, and the department laid the tarvia top. On Tufts street, a contractor laid the concrete base at \$.84 per square yard, and the department laid a pea stone tarvia top. The total cost was \$1.10 per square yard. These prices include the resetting of edgestones, and repairing sidewalks where needed.

Street Cleaning.

All the citizens could help keep the streets clean by not throwing or sweeping rubbish into the streets, and by using a little care when they set their refuse barrels on the sidewalks for collection, by seeing that the material is so placed that it will not blow out of the barrels, and I would thank them for so doing.

As recommended in the report of 1910, a single team and helper will be placed the coming year in each ward of the city, and a special effort will be made to keep the streets clean.

What the department should have is a flushing or pick-up machine that could be used nights to keep the squares clean. The scarcity of dumps increases the cost of this branch of the work.

Street Sprinkling.

Good work was done in the oiling of our streets by the horse-drawn automatic pressure oilers. With the purchase of an auto truck oiler the work could be done more economically.

This year we used:—

58,544 gallons of Standard No. 4,
64,065 gallons of Speare's Tasscoil,
6,512 gallons of "Dustoline,"
6,901 gallons of Headley's No. 7,
15,051 gallons of Headley's No. 22,
25,844 gallons of Barrett's "Tarvia B,"
32,174 gallons of Speare's "45 Percent,"
17,515 gallons of Indian oil,
19,800 gallons of gas house tar,
1,300 gallons of Speare's "Asphaltoline."

Each abutter is charged \$.05 per linear foot.

There are several reasons why oil or tar is better than water, namely: the large number of gallons of water saved; dust laid for all times; saving the surface of the streets; less street cleaning; and last but not least, no watering carts on the streets Sundays or holidays.

Stone Crusher.

The crushing plant has been in operation 251 1-2 days during the year. There were 7,698 tons of stone crushed, and 3,135.175 tons purchased during the year.

The steam drill has worked 270 days.

Bridges.

The bridges are in good condition. The abolition of the grade crossings on Medford street and Dane street have been completed and the streets opened to the public, thus doing away with two very dangerous crossings.

All the fences at the bridges and grades that the department cares for, were painted and repaired.

Shade Trees.

The city purchased trees and set out the same on several of the main thoroughfares where trees had died or been removed.

Trees purchased by the abutters were set out by the department and all trees were protected by a wire guard and supported by a pole. The conditions with which the shade trees have to contend in the city is a serious drawback to their growth, namely: electric wires, gas leaks, permanent paving, and insects.

One hundred and fifty-one dead and dangerous trees were removed during the year and 613 new trees set out. Three hundred and thirty-six trees were trimmed. A total of 7,252 street and park trees were sprayed by the gasoline spraying machine.

The leopard moth or borer is increasing in the city, and an appropriation should be made to enable the department to make a fight against this pest which is destroying many of our trees.

Gypsy and Brown-tail Moths.

The moths are under control in our city. Most of the work is done in the winter-time because they are in the tent form and easy to find. The employees cut off the brown-tail nests and paint the gypsy nests.

Seven thousand and eighty-six street trees and 10,815 trees on private property were inspected and cared for by the department.

Steam Rollers.

A new Buffalo-Pitts fifteen-ton steam roller was purchased this year. The old ten-ton roller will be kept for emergency. The No. 1 roller has worked forty-eight days, the No. 2 roller 204 days, No. 3, 23 1-2 days, and No. 4, 160 days. The No. 3 roller is a five-ton roller, and is used for rolling the parks in the spring of the year.

Sidewalks.

As recommended in last year's report an appropriation of over \$20,000.00 was made. The city government could use the same amount the coming year. Great improvement was made

in several sections of the city by the completion of the sidewalks, thus giving a continuous walk.

The average cost of gravel sidewalks with edgestones was \$1.02 per linear foot, brick sidewalks \$1.30 per square yard, and granolithic \$1.57 per square yard; this included the resetting of edgestones. A contractor laid granolithic for \$1.35 per square yard, and where the edgestones were reset, where he laid the granolithic, the average cost was \$1.41 per square yard.

The department received more complaints about muddy sidewalks from pedestrians and abutters where the sidewalks are not completed than from any other source. Where the brick or granolithic sidewalks are not completed it is a serious inconvenience to pedestrians in bad weather, and they should be completed so as to make one continuous sidewalk. The abutters are assessed half the cost for constructing sidewalks.

The department used 10,613 bags of Portland cement.

Snow and Ice.

The department expends a considerable sum from the maintenance appropriation for snow and ice. It is the duty of this department to remove the snow and ice from all sidewalks in front of public buildings and grades, and sand the same when they become slippery, for which the department receives no compensation.

The department has four bridges from which it is required to remove snow and ice, due to the abolition of the grade crossings on the Fitchburg Division. Sand boxes are within easy access for the push-cart men who care for the subways, bridges and squares.

Not many years ago the department could let the snow lie in the several squares and on the main streets, but now the city is built up and progressing, and the snow and ice must be teamed away in order that the squares and main streets may be in proper condition for the conduct of business and the convenience of the general public.

Underground Wires.

The work of burying the wires is progressing slowly. Permits for opening the streets were issued to the Edison Electric Illuminating Company and the New England Telephone and Telegraph Company to connect their underground system on the main streets to the first or second pole on the intersecting streets. On all the new streets, and streets to be constructed, the electric and telephone wires should be laid underground. This would help save the trees and beautify the city.

Accepted Streets.

There were twenty-two streets accepted under the Betterment Act during the year, comprising a total length of 8,785

linear feet. There were eight streets constructed under the Betterment Act, with macadam and tarvia, comprising a total length of 4,152 linear feet, at an average cost of \$1.18 per square yard, which included paving the gutters with granite block paving three feet wide. Edgestones were set before the construction work was begun.

There were nine streets or portions of streets macadamized or resurfaced at a cost of \$2,405.34.

There are 79.662 miles of public streets and 19.4 miles of private streets in the city, making a total length of 99.062 miles. (See table in back of report.)

Sidewalks Maintenance.

The department received a fairly good appropriation for repairing sidewalks this year, but as the cost of repairing gravel sidewalks was charged to this account, and because we have so many miles of gravel or dirt sidewalks to care for, less work was done on the repairing of brick sidewalks. Three thousand five hundred and ninety feet of edgestones were reset, and 2,700 square yards of brick sidewalks relaid.

The more money spent for permanent sidewalks, the less money will be needed for the repair of gravel or dirt sidewalks.

Sanitary Division.

The collection of ashes and garbage increases each year. Take for instance the old nunnery grounds, which about a year ago was vacant land, and where now there are over 152 families from whom to collect ashes, rubbish and garbage. Practically the same condition obtains in the western part of the city.

I think the only solution of the whole problem is for the city to erect large hoppers in the districts where there are no dumps, and haul the material from the hoppers to the dumps with auto trucks. By this system the ashes and rubbish would be removed from the streets much quicker and more economically.

The garbage is teamed to the city yard and sold to the farmers at \$.70 per cord foot, and the combustible material to the incinerator, where it is sorted by a contractor who pays the city \$85.00 a month. For these two items the city received \$10,465.15.

Summary of collections:—

75,194.5 cubic yards of refuse,
3,289 cubic yards of rubbish,
23,079 cubic yards of paper,
1,844.49 cords of garbage.

Two hundred and thirty-seven requests and complaints were received and attended to.

Statement of Tools and Personal Property in the Hands of the Sanitary Division, January 1, 1914.

Horses	\$10,200 00
Carts and implements used with horses	11,204 00
Auto truck	3,375 00
Harnesses and horse clothing	1,970 00
Stable utensils and property	154 90
Tools	158 20
Incinerator stock	103 00
Painting stock	37 56
Stock in harness room	70 80
Stock and tools for horse shoeing	187 78
	\$27,461 24

Emergency Call.

The emergency call for this department is 8-8 on the fire alarm system, and is used to call the employees to the stable in case of emergency. The emergency wagon is always ready, day or night, to answer all calls.

Miscellaneous.

Specifications were sent out to all the local and wholesale concerns and bids asked for the furnishing of edgestones, brick, sand, gravel, cement, tools, paving stock, etc. The bids were opened publicly in the office of the mayor, and the contracts were awarded to the lowest bidders, preference being given to Somerville citizens and taxpayers.

The department has been called upon to furnish steam rollers, teams, crushed stone, sand, gravel, cement and ashes to the other departments of the city, being reimbursed for the same.

The department does its own painting, carpentering, blacksmithing, horseshoeing and harness repairing, and maintains shops for these different lines of work at the city stable.

Horses have been purchased, killed or sold as follows:—

	Purchased.	Killed.	Sold.
Street Division	3	1	1
Sanitary Division	3	1	1

I have attended thirty-one meetings of the committee on public works for consultation regarding work and petitions before the committee.

Under the Pension Act for Laborers, accepted in 1912, three laborers have been pensioned. In 1913 the voters of the city accepted the Workmen's Compensation Act.

The following permits were issued during the year:—

Permits for steam rollers, erecting canopy and blasting rock .	24
Permits for Cambridge Gas Light Company	233
Permits for Charlestown Gas Company	132
Permits for occupying streets and sidewalks	210
Permits for opening streets and sidewalks	152

Permits for crossing sidewalks	71
Permits for feeding horses	8
Street watering complaints and requests	45
Notifications to other departments and corporations	563
Requests for repairing gravel sidewalks	194
Accidents reported	27
Police reports	528
Streets oiled	384
Brick and granolithic sidewalks repaired	268
Miscellaneous reports and requests	581
Requests to care for moths	9
Poles and guards for trees	519
Drain layers' permits	153
Water department openings	1,045
Ice and snow removed (loads)	118
New signs erected by department	118
Signs repainted by department	74
Sand and gravel used (cubic yards)	1,890
Dirt removed or handled (cubic yards)	15,076
Scrapings removed from streets	11,071
Old macadam used (cubic yards)	1,206
Ashes used (cubic yards)	6,567
Ballast used (loads)	596

Recommendations.

I most respectfully recommend that the south side of Elm street, from Oak square to Cutter square, be constructed similar to the north side, with a concrete base and tarvia macadam top surface.

The unpaved portions of Beacon street, Somerville avenue, College avenue, Broadway, Springfield, and Newton streets should be completed. Portions of Morrison avenue, Willow avenue, Cedar street, School street, and Summer street should be resurfaced.

His honor, Mayor Burns, has petitioned the Massachusetts Highway Commission to accept Middlesex avenue as a State highway.

As recommended in last year's report, the blacksmith shop should be enlarged in order to make accommodations for the wheel-wrights.

I wish to extend my sincere thanks to all for their support and hearty co-operation.

Highways Maintenance Account.

CREDIT.

Appropriation	\$33,000 00
Transfer from Funded Debt Account	806 96
Transfer from Street Sprinkling Account	2,003 15
Transfer from Sidewalks Maintenance	558 12
Transfer from Street Cleaning Account	198 70
Transfer from Care of Trees Account	56 80
Transfer from Refuse Disposal Account	190 19
Amount carried forward	<u>\$36,813 92</u>

Amount brought forward	\$36,813 92	
Transfer from Elm Leaf Beetle Extermination Account	9 07	
Transfer from Public Buildings Maintenance Highway Buildings Account	43 50	
		\$36,866 49
Less transfer to Care of Trees	600 00	
Less transfer to Street Cleaning	800 00	
Less transfer to Street Sprinkling	650 00	
		2,050 00
		\$34,816 49
Receipts and credits:—		
Use of city teams on sundry work	\$6,104 56	
Use of steam road rollers	2,421 78	
Highways, street sprinkling (bill for materials)	251 46	
Public property bill paid of 1912	44 86	
Value of materials on hand January 1, 1913	1,230 78	
Profit and loss on materials	209 23	
		\$10,262 67
Total credit		\$45,079 16

DEBIT.

Expenditures:—

For repairs of sundry streets, as per table B, at end of this report	\$2,405 34
General repairs of streets	13,045 29
Repairs of street and block paving	9,306 97
Repairs of street crossings	83 19
Repairs of gutters	54 15
Repairs of iron fence at Boston avenue bridge	22 45
Repairs of fence at Clarendon Hill ledge	138 89
Repairs of crusher	466 19
Repairs of steam road rollers	466 72
Repairs of carts, plows, rollers, etc.	1,678 83
Repairs of tools	41 63
Repairs and supplies of Street Commissioner's auto, ...	294 85
Storage of Street Commissioner's automobile	79 40
Removing snow and ice and care of slippery sidewalks	1,406 84
Painting carts	298 95
Painting and repairing at bridges and grades	291 64
Street opening, Illinois avenue at Broadway	176 60
Street opening, Indiana avenue at Broadway	170 34
Street opening, Michigan avenue at Broadway	161 40
Street opening, Minnesota avenue at Broadway	121 55
Street opening, Pennsylvania avenue at Broadway (bill of 1912)	66 69
Street opening, Central road at Central and Sycamore streets	67 52
Street opening, Burnham street at Broadway	47 73
Street opening, Leonard street at Broadway	49 81
Rolling for Tufts College	15 00
Care of subways	502 09
Blacksmithing	177 75
Carpentering	57 50
Painting	83 60

Amount carried forward	\$31,778 91
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Amount brought forward	\$31,778 91
Street signs and numbers	1,080 98
Sawing wood	105 73
Steam drill (repairs of same and fuel)	228 16
Waltham Gravel Land taxes for 1913	175 21
Money paid men injured while at work	163 12
Money paid men for holidays	1,018 75
Taking care of highway property	1,095 41
Street crossing discontinued on Benedict street at Benedict avenue	15 18
Street Commissioner's salary	2,400 00
Street Commissioner's telephone	32 45
Tools	552 25
Iron and hardware	30 00
Ashes	40 09
Stone bounds	50
Holland street ledge	180 11
Lumber	99 15
Cement	3 48
Sand	10 83
Pensions for laborers	337 92
Books, stationery, printing and postage	176 78
Sundry expenses	2,372 03
Private work (receipts credited to revenue)	1,053 73
Private work (bills for which remained unpaid December 31, 1913)	210 29
Value of material on hand December 31, 1913	1,918 10
Total debit	<u>\$45,079 16</u>

Highways Construction Account.

CREDIT.	
Balance from 1912	\$2,857 84
Appropriation	20,000 00
Transfer from funded debt account	7,000 00
	<u>\$29,857 84</u>
Advertising and recording releases and plans in 1912, charged in cost of streets in 1913	\$111 52
Value of material on hand January 1, 1913	308 71
Profit and Loss on material	576 98
	<u>\$997 21</u>
Total credit	<u>\$30,855 05</u>
DEBIT.	
Expenditures:—	
For construction of streets as appears by table A, at end of this report	\$36,834 70
Less assessments	7,135 45
	<u>\$29,699 25</u>
Advertising and recording releases and plans for streets not constructed	250 53
Street crossing, Hudson street opposite Proctor School	52 09
Street crossing, Glenwood road at Broadway	46 54
Street crossing, Washington street, opposite Perry street	77 76
Street crossing, Austin street at Benedict street	63 05
Amount carried forward	<u>\$30,194 22</u>

Amount brought forward	\$30,194 22
Settlement of claim by laying out Langmaid avenue, Books	100 00 12 00
Value of material on hand this day	235 45
Total debit	<u>\$30,541 67</u>
Balance unexpended	<u><u>\$313 38</u></u>

Highways, Street Sprinkling.

CREDIT.

Appropriation	\$28,000 00	
Transfer from Highways Maintenance ac- count	650 00	
	<u></u>	\$28,650 00
Receipts:—		
Sale of running gear		75 00
		<u></u>
		\$28,725 00
Less transfer to Highways Maintenance ac- count	\$2,003 15	
Less transfer to Care of Trees account	400 00	
	<u></u>	2,403 15
Total credit		<u><u>\$26,321 85</u></u>

DEBIT.

Expenditures:—		
Teaming, street sprinkling	\$4,948 42	
Oiling streets	17,768 77	
Tarviating streets	2,413 00	
Painting carts	436 88	
Repairing carts	473 55	
Maintenance of water posts	85 22	
Clerical work	176 01	
Books	20 00	
	<u></u>	
Total debit		<u><u>\$26,321 85</u></u>

Sidewalks Construction.

CREDIT.

Balance from 1912	\$382 37	
Appropriation	20,000 00	
	<u></u>	\$20,382 37
Receipts and Credits:—		
Zebedee E. Cliff, constructing sidewalk (inside sidewalk line)	\$98 16	
Boston & Maine Railroad (sidewalk, Walnut street)	17 49	
Abutters on Powder House Boulevard (partial payment)	404 00	
Abutters on Elm street (partial pay- ment)	580 00	
Abutters on Washington street (partial payment)	76 21	
Eastern Clay Goods Company (cement bags)	102 87	
	<u></u>	
Amounts carried forward	\$1,278 73	\$20,382 37

Amounts brought forward	\$1,278 73	\$20,382 37
Transfer from Sewers Construction account,	670 68	
Value of material on hand January 1, 1913,	96 90	
Profit and Loss on materials	110 74	
		2,157 05

Total credit	\$22,539 42
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DEBIT.

Expenditures:—

For fifty-two sidewalks constructed as per table C at end of this report	\$38,116 20	
Less assessments	18,198 89	
		\$19,917 31
Construction of sidewalk, Broadway at No. 274 to No. 290 (private work)		307 88
Construction of sidewalk, Elm street		1,113 12
Construction of sidewalk, Crescent street (partial cost)		46 42
Construction of sidewalk, Powder House boulevard, Construction of sidewalk, Washington street (par- tial cost) from near Union square to railroad bridge		962 46
		157 09
Abatement of sidewalk assessment to Stevens es- tate, Myrtle street, constructed in 1912		16 76
Books		13 20
Value of materials on hand December 31, 1913		5 18
Total debit		\$22,539 42

Sidewalks Maintenance.

CREDIT.

Appropriation	\$5,000 00
Material on hand January 1, 1913	40 64
Profit and Loss on material	68 25
	\$5,108 89
Less transfer to Highways Maintenance account	558 12
Total credit	\$4,550 77

DEBIT.

General Repairs of Sidewalks.

Labor, repairing sidewalks	\$394 52
Use of city teams	114 80
Bricks	64 30
Gravel	5 58
Sand	5 12
Crushed stone	1 37
Ashes	2 25
Cement	1 64

\$589 58

Special Repairs of Sidewalks.

Repairing sidewalk, Albion street	\$579 06
Repairing sidewalk, Aldrich street	7 44
Repairing sidewalk, Alston street	29 10
Amount carried forward	\$615 60

Amount brought forward	\$615 60	
Repairing sidewalk, Broadway (near Sycamore street)	55 59	
Repairing sidewalk, Church street	12 23	
Repairing sidewalk, Flint street, Cross street to Aldrich street	210 79	
Repairing sidewalk, Greene street	30 93	
Repairing sidewalk, Lowell street at Park	13 70	
Repairing sidewalk, Newton street and Concord avenue	205 39	
Repairing sidewalk, No. 370 Somerville avenue	10 40	
Repairing sidewalk, Summer street	10 78	
Repairing sidewalk, Nos. 3 and 4 Union square	7 21	
Repairing sidewalk, Virginia street	32 00	
Repairing sidewalk, Webster avenue and Prospect street	29 11	
Repairing sidewalk, Wesley park	47 44	
Repairing sidewalk, Wheeler street	10 40	
		\$1,291 57
Repairs of brick sidewalks	723 10	
Repairs of gravel sidewalks	1,665 06	
Repairs of granolithic sidewalks, (Bill receivable) Timothy F. Crimmins, repairing sidewalk, Westminster street	202 60	
	9 38	
Books	13 20	
		\$2,613 34
Material on hand December 31, 1913		56 28
		<u>\$4,550 77</u>

Highways, Street Cleaning.

CREDIT.

Appropriation	\$21,000 00	
Transfer from Water Works Extension	1,000 00	
Transfer from Highways Maintenance	800 00	
	\$22,800 00	
Less transfer to Highways Maintenance	198 70	
Total credit		\$22,601 30

DEBIT.

Expenditures:—

Labor	\$18,634 30
Use of city teams	3,803 80
Push brooms	36 00
Repair of sweeping machines	127 20

\$22,601 30**Care of Trees.**

CREDIT.

Appropriation	\$2,500 00
Transfer from Highways Maintenance	600 00
Amount carried forward	\$3,100 00

Amount brought forward	\$3,100 00
Transfer from Street Sprinkling	400 00

 \$3,500 00

Less transfer to Highways Maintenance	56 80
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Total credit	\$3,443 20
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DEBIT.

Expenditures:—

Removing trees	\$2,089 04
Trimming trees	747 49
Setting trees	543 93
Cementing and patching trees	19 54
Spraying trees for tussock moths.	43 20

Total debit	\$3,443 20
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Shade Trees.

CREDIT.

Appropriation	\$500 00
Transfer from Highways, Steam Roller	100 00

Total credit	\$600 00
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DEBIT.

For 200 Norway Maples, \$1.10	\$220 00
Delivering same	20 00
Labor, setting trees	242 90
Use of city teams	30 80
Lumber	61 13
Wire	14 70
Staples	6 50

Total debit	\$596 03
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Balance unexpended	\$3 97
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Gypsy and Brown-Tail Moth Extermination.

CREDIT.

Appropriation	\$2,400 00
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DEBIT.

Expenditures:—

For labor	\$2,277 71
Use of city teams	27 92
Brushes and screw eyes	3 60
Badges	3 00
Books	10 00
Printing notices	11 00
Clerical work	20 10
Damage to clothing	46 67

Total debit	\$2,400 00
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Elm Leaf Beetle Extermination.

CREDIT.

Appropriation	\$700 00
Less transfer to Highways Maintenance	9 07

 \$690 93

DEBIT.

Expenditures:—

For labor	\$298 78
Use of city teams	51 80
Arsenate of lead	271 87
Gasoline	24 30
Cycle oil	8 81
Spray pipe, spark plugs and couplings	13 50
Oil suits	7 83
Printing warning cards	10 00
Tacks and punch	3 89
Expressing	15

Total debit	<u>\$690 93</u>
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Refuse Disposal.

CREDIT.

Appropriation	\$80,000 00
Transfer from Contingent Fund	2,000 00

Total credit	<u>\$82,000 00</u>
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DEBIT.

Collecting refuse	\$44,729 10
Collecting garbage	22,133 19
Horses	420 00
Stable expenses	2,963 25
Carts, wagons, and repairing same	666 54
Repairs and maintenance of auto truck	792 02
Harnesses and horse clothing, and repair- ing same	501 40
Tools and repairing same	59 17
Horse shoeing (stock on hand)	302 51
Horse shoeing	440 47
Horse medicine and doctoring	77 91
Hay and straw	3,833 14
Grain and feed	3,016 20
Rental of dump	600 00
Laborers paid for holidays	712 27
Money paid men injured while at work	53 00
Lime	1 25
Books and stationery	42 50
Care of highway property	465 89

Total debit	<u>\$81,809 81</u>
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Balance unexpended	<u>\$190 19</u>
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**Statement of Tools, Materials and Personal Property in the Hands
of the Highway Department This Day.**

Horses	\$7,775 00
Carts and implements used with horses	10,507 05
Automobile	700 00
Steam road rollers	8,900 00
Stone crusher and fittings	1,644 80
Harnesses and horse clothing	1,299 40

Amount carried forward	<u>\$30,826 25</u>
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Amount brought forward	\$30,826 25
Stable utensils and property	895 88
Horse medicine	23 54
Horse shoes and supplies	493 14
Blacksmith stock	265 74
Carpenter's stock	21 35
Watering carts and stock	11,921 28
Tools	2,334 79
Moth stock and tools	106 86
Paint stock	15 00
Edgestones and paving stock (credited various depts.),	2,215 01
Stock for repairs of carts, plows, etc.	157 46
Arsenate of lead, etc.	65 15
Street signs	44 50
	\$49,385 95

TABLE A.
Streets Constructed in 1913.

STREET.	FROM	TO	MATERIAL.	LENGTH IN FEET.	COST.
Alston street (gutters) .	Shawmut place	Cross street	Paving blocks	233	\$ 186 16
Conwell avenue .	Curtis street	North street	Macadam and tarvia	1,346	4,296 15
Crescent street .	Pearl street .	(S'wly side) Hadley st.	Ballast	174	247 43
Dearborn road .	Boston avenue	College avenue	Macadam and tarvia	469	2,013 90
Elm street (northeasterly roadway) .	Oak square	Cutter square	Concrete base, macad- am and tarvia top	3,540	8,281 84
Elm street (S'y side gutters) .	Beech street	Miller avenue	Paving blocks (old)	470	86 02
Fremont street .	Meacham street	460 ft. northeasterly	Macadam and tarvia	460	1,774 67
Garrison avenue .	Broadway .	land of city of Cam- bridge	Macadam and tarvia	460	1,637 23
Greene street (gutters) .	Laurel street	where not laid	Paving blocks	563	432 95
Leland street .	Washington street	Dane avenue	Macadam and tarvia	359	1,040 95
Lowell street .	Summer street	Crown street	Macadam and tarvia	351	1,189 54
Main street (widening) .	Southwesterly side	Medford line	Macadam	86	137 81
Prichard avenue .	Boston avenue	Frederick avenue	Macadam and tarvia	517	2,028 55
Porter street .	Elm street	Summer street	Filling	1,175	1,193 96
Shawmut place .	Shawmut street	Alston street	Macadam and tarvia	190	596 93
Shawmut street (gutters)	Cross street	Washington street	Paving blocks	575	259 84
South and Bedford street (gutters) .	in front of Est. 6 & 8	and 11 Bedford street.	Paving blocks (Bed- ford street)	49	20 20
Temple street .	South street	Derby street	Macadam and tarvia	993	4,393 33
Tufts street .	Broadway .	Washington street	Concrete base tarvia top.	979	3,244 70
Walnut street, N'w'y side (gutters) .	Medford street	Pearl street	Paving blocks	104	51 96
Water street .	South street	Railroad	Concrete base paving blocks grouted	371	2,542 78
Woodstock street (par- tials) .	Victoria street	Alewife Brook	Ballast	232	1,177 80
Length in feet, and cost				13,696	\$36,834 70

TABLE B.
Streets Repaired.

STREET.	FROM	To	DESCRIPTION OF WORK.	FEET.	COST.
Central street . . .	Medford street . . .	Railroad bridge . . .	Macadam and tarvia . . .	780	\$1,008.10
College avenue . . .	at— . . .	Dearborn road . . .	Macadam and tarvia . . .	....	69.60
Dane street . . .	Somerville avenue . . .	Washington st. to near bridge approaches . . .	Macadam and tarvia . . .	510	401.64
Dartmouth street . . .	Broadway . . .	Medford street . . .	Old macadam and tarvia . . .	1,465	201.68
Middlesex avenue . . .	Mystic avenue . . .	Boulevard . . .	Patching . . .	2,304	101.72
Mt. Pleasant street . . .	Broadway . . .	Perkins street . . .	Tarvia and screenings . . .	584	74.51
Sargent avenue . . .	Broadway . . .	Walnut street . . .	Old macadam and tarvia . . .	1,075	173.63
Webster street . . .	Cross street . . .	Glen street . . .	Resurfacing . . .	225	54.00
Wesley park . . .	Bow street . . .	Entire length . . .	Macadam and tarvia . . .	405	320.46
Length in feet, and cost				7,348	\$2,405.34

TABLE C.
Sidewalks Constructed Where the Materials Were Furnished by the City and One-half the Cost Was Assessed Upon the Abutting Estates.

STREET.	SIDE.	FROM	TO	FEET OF EDGESTONE.	YARDS OF BRICK.	YARDS OF GRANOLITHIC.	COST.
Alston street . .	Northeasterly	Shawmut place .	To sidewalk already laid	266.8	....	.....	\$261 26
Beacon street . .	Northeasterly	Railroad bridge .	Near Sacramento st.	....	....	1,557.1	2,174 42
Beacon street . .	Southwesterly	Forest street . .	Beckwith circle .	....	....	1,513.1	2,162 95
Beacon street . .	Southwesterly	Cooney street . .	In front of estate .	....	....	61.6	104 27
Broadway	Southerly . . .	Magoun square .	Som. Bldg. Asso. .	....	....	429.5	760 69
Broadway	Northeasterly	In front of estate .	City road . . . .	....	....	154.2	320 66
Broadway	Southwesterly	City road	No. 489 . . . . .	....	....	122.8	2,081 95
Broadway	Northeasterly	In front of estate .	Railroad bridge .	....	....	120.	162 00
Broadway	Northeasterly	In front of estate .	Nos. 101 to 107 inc. .	....	....	114.5	154 58
Calvin street . .	Easterly	In front of estate .	Nos. 1119 to 1135 .	....	....	204.5	280 58
Calvin street . .	Westerly	Washington street	Dimick street . . .	....	....	366.	521 55
Crescent street .	Both	Beacon street . .	Washington street .	244.3	....	....	180 40
Conwell avenue .	Both	Pearl street . . .	Southwesterly side Hadley street . .	2,703.6	....	....	2,577 41
Concord avenue .	Northerly . . .	Curtis street . .	North street . . .	....	....	20.9	32 19
Dearborn road . .	Both	Dimick street . .	About 461 ⁷ / ₁₁ west of Dimick street . .	809.5	....	....	854 12
Dimick street . .	Both	Boston avenue . .	College avenue . .	....	....	1,005.8	1,549 96
Fremont street . .	Both	Concord avenue .	(Where not already laid) Calvin street .	952.3	....	....	1,072 75
Garrison avenue .	Both	Meacham street .	460 feet northeasterly. Land of City of Cam- bridge	887.7	....	....	872 57
		Broadway	Carried forward .	5,864.2		5,670.0	16,124.31

TABLE C.—Continued.

STREET.	SIDE.	FROM	TO	FEET OF EDGESTONE.	YARDS OF BRICK.	YARDS OF GRANOLITHIC.	COST.
Gilman terrace.	Easterly	Pearl street	Brought forward	5,864.2	....	5,670.0	16,124.31
Grant street	Northwesterly	Jaques street	Entire length	....	....	242.2	437.14
Glen street	Easterly	Flint street	Mystic avenue	....	....	508.3	798.10
Greene street	Westerly and Northerly	Summer street	Oliver street	....	....	122.9	180.83
Greene street	....	Laurel street	Laurel street	458.9	....	304.5	937.56
Heath street	Northerly	Laurel street	Southeasterly where not already laid	103.8	70.4	....	169.13
Leland street	Both	Fenwick street	Bond street	....	....	150.5	281.37
Liberty avenue	Easterly	Washington street	Dane avenue	731.2	....	....	638.81
Lowell street	Both	Mallet street	Broadway	....	....	239.9	361.86
Marion street	....	Summer street	Crown street	529.2	....	....	552.20
Medford street	Northeasterly	In front of estate 51	Dimick street	....	....	70.6	108.72
Moore street	Southeasterly	Central street	Broadway	....	239.	747.8	1,735.02
Moreland street	Easterly	Holland street	Mead street	....	....	466.8	742.82
Moreland street	Northwesterly	Meacham street	Mystic avenue	....	....	511.3	748.50
Mystic avenue	Southwesterly	Meacham street	To and including es- tate, 68 Moreland st.	....	....	86.3	135.32
Ossipee road	Both	Union street	Charlestown line	....	382.4	....	465.49
Prichard avenue	Both	Packard avenue	Curtis street	....	....	918.3	1,335.54
earson road	Westerly	Boston avenue	Frederick avenue	970.5	....	....	925.21
		Broadway	Warner street (where not already laid)	....	....	235.4	350.05
			Carried forward.	8,657.8	691.8	10,274.8	27,027.98

TABLE C.—Concluded.

STREET.	SIDE.	FROM	TO	FEET OF EDGESTONE.	YARDS OF BRICK.	YARDS OF GRANOLITHIC.	COST.
Porter street .	Both . . .	Elm street.	Brought forward . (Where not already laid)	8,657.8	691.8	10,274.8	27,027.98
Rossmore street .	Both . . .	Somerville avenue .	Summer street .	1,221.4	....	....	\$1,270.97
Summer street .	Southwesterly .	Cherry street .	Washington street .	....	....	723.	1,069.32
Summer street .	Northwesterly .	Porter street .	Hancock street .	....	....	162.7	329.16
Shawmut street .	Southwesterly .	Central square .	Belmont street .	....	....	663.6	1,132.21
Shawmut place .	Southwesterly .	Shawmut street .	Washington street .	346.9	....	....	309.58
South street .	Both . . .	In front of Estate .	Alston street .	354.6	....	....	445.32
Bedford street .	Westerly . .	In front of Estate .	Nos. 6 and 8 and .	48.9	48.7	....	108.48
Temple street .	Southwesterly .	Jaques street .	No. 11 . . .	272.5	....	....	448.15
Veazie street .	Both . . .	Walnut street .	Opposite Derby street	....	....	378.1	515.47
Walter street .	Both . . .	Walnut street .	Marshall street .	....	....	670.6	1,029.06
Water street .	Both . . .	South street .	Entire length .	714.5	....	....	695.07
Walnut street .	Northwesterly .	Medford street .	Entire length .	104.3	265.4	....	443.92
			Pearl street (where not already laid) . . .				
Washington street .	Northwesterly .	From driveway at .	(Where not already laid)	....	....	358.	579.36
Warner street .	Northwesterly .	Union building .	Hawkins street .	....	....	211.2	378.89
Warner street .	Northwesterly .	Pearson road .	Bromfield road .	....	....	35.8	63.50
Winslow avenue .	Both . . .	Pearson road .	Medford line .	....	....		
		College avenue .	Clifton street (where not already laid) }	....	....	1,456.6	2,269.76
Total				11,720.9	1,005.9	14,934.4	\$38,116.20

TABLE D.
Driveways Constructed at Expense of Abutters.

FOR	LOCATION.
American Tube Works	Somerville avenue
Winthrop H. Bowman	254 Highland avenue
Louise Budgell	48 Brastow avenue
Charles E. Carter	13 Grand View avenue
John L. Clark	399 Highland avenue
Lawrence J. Dervin	218 Highland avenue
Albert W. Dow & Co.	12 Newbury street
James W. Dixon	75 Moreland street
Philip Eberle	Washington street
Charles E. Fuller	Waldo street
Chester A. Hall	94 Perkins street
Mary E. Hayden	174 Summer street
Frederick G. Hills	25 Farragut avenue
William B. Hamman	107 College avenue
Esther H. Kingsley	68 Central street
A. F. Lee	166 Elm street
Adams H. Merrill	200 Broadway
Charles F. Mills	43 Alpine street
Alex Magnusson	315 Beacon street
Nellie A. Nowell	5 Webster street
Otto Olson	36 Pearson road
James P. O'Neill	Columbia street
Arthur N. Park	Broadway
Marie S. Paasche	53 Hall street
Ernest D. Pillsbury, M. D.	9 Curtis street
Frank H. Richardson	57 Myrtle street
Henry M. Rood	14 Liberty avenue
John A. Ross	124 Orchard street
Francis Shaw, M. D.	57 Cross street
Mark B. Smiley	22 Newbury street
Edmund S. Sparrow	17 College avenue
Gideon W. Swain	56 Hall avenue
William C. Wentzell	87 Irving street

TABLE E.
Driveways Discontinued at Expense of Abutters.

FOR	LOCATION.
American Tube Works	Somerville avenue
F. A. Callahan	6 Banks street
Harvey D. McGray	Central street
Hannibal S. Pond	56 Vinal avenue
Hypolite Stampfler	218-A Summer street
Charles B. Wyman	161 Walnut street

TABLE F.
Driveway Widened at Expense of Abutter.

FOR	LOCATION.
Napoleon Bernier	 336 Beacon street

TABLE G.
Driveway Re-located at Expense of Abutter.

FOR	LOCATION
Nora E. Healey	 11 Dimick street

TABLE H.
Streets Accepted by the Board of Aldermen in 1913.

STREET.	WARD.	FROM	TO	WIDTH IN FEET.	LENGTH IN FEET.	ACCEPTED.
Aberdeen road	6	Highland avenue	Cedar street	40	449	December 31
Belknap street	7	Broadway	Hamilton road	40	449	December 31
Belmont place	6	Belmont street	Southeasterly	25	177	December 31
Chester aven	4	Accepted portion	Cross street	20	451	December 31
Clark street.	2	Newton street	Lincoln Parkway	35	552	December 31
Clyde street	5	Cedar street	Murdock street	30	664	December 31
Crescent street	1	Pearl street	Hadley street	30	174	September 20
Derby street	4	Grant street	Wheatland street	40	200	December 31
Flint avenue	4	Flint street	Northerly	40	202	December 31
Garfield avenue	4	Broadway.	Blakeley avenue	40	447	December 31
Greene street	3	present terminus e'ly	Land of Caldwell	40	1	September 20
Harold street	2	Dimick street	Marion street	40	316	December 31
Main street (widening)	5	Westerly side at	Medford line . . . . .	....	....	September 20
Meacham street	5	Mt. Vernon avenue	Medford line	40	777	December 31
Pearl Street place	4	Pearl street	Northeasterly	20	166	December 31
Pearson road	7	Warner street	Dearborn road	40	1,089	December 31
Sartwell avenue	6	Cedar street	Cherry street	35	427	December 31
Taylor street	4	Sydney street	Mystic avenue	40	309	December 31
Teele avenue	7	Packard avenue	Curtis street	40	685	December 31
Vine street	2	Somerville avenue	Fitchburg Railroad	40	540	December 31
Wilson avenue	6	Broadway	Boston & Lowell R. R.	20	307	December 31
Woodstock street	7	Victoria street	Alewife Brook	40	403	June 13
Length in feet					8,785 (1.664 m.)	

TABLE I.
Street Crossings Laid.

Austin street, crossing same, Benedict street.
Glenwood road, crossing same, at Broadway.
Hudson street, crossing same, at George O. Proctor School.
Washington street, crossing same, at Albion A. Perry School.

TABLE J.
Street Openings.

Burnham street, at Broadway.
Central road, at Central street and Sycamore street.
Leonard street, at Broadway.
Indiana avenue, at Broadway.
Illinois avenue, at Broadway.
Michigan avenue, at Broadway.
Minnesota avenue, at Broadway.

TABLE K.
Length of Accepted Streets in Each Ward.

													Miles.
Ward 1	.	.	.	.	.	.	.	.	.	.	.	.	9.745
" 2	.	.	.	.	.	.	.	.	.	.	.	.	8.936
" 3	.	.	.	.	.	.	.	.	.	.	.	.	7.560
" 4	.	.	.	.	.	.	.	.	.	.	.	.	9.797
" 5	.	.	.	.	.	.	.	.	.	.	.	.	12.100
" 6	.	.	.	.	.	.	.	.	.	.	.	.	13.150
" 7	.	.	.	.	.	.	.	.	.	.	.	.	18.374
Total length of accepted streets in the city													79.662

Classification of Street Construction.

			Sq. Yds.	Miles.
Streets paved with granite blocks			99,815	4.12
" " " hassam paving			36,802	1.80
" " " asphalt			10,410	.73
" " " vitrified brick			13,564	.64
" " " bitulithic			14,689	.88
Combination pavement, concrete base with bituminous top				2.68
Streets macadamized, "tarvia" bound				13.91
Streets macadamized, water bound				52.25
Streets graveled or unimproved				22.05
Total				99.06

Respectfully submitted,

ASA B. PRICHARD,
Street Commissioner.

REPORT OF COMMISSIONER OF PUBLIC BUILDINGS.

OFFICE OF COMMISSIONER OF PUBLIC BUILDINGS, }
 CITY HALL, SOMERVILLE, January 1, 1914, }

To the Honorable, the Mayor, and the Board of Aldermen of
 the City of Somerville:—

Gentlemen,—In accordance with the provisions of the City Charter, I submit herewith the annual report of the public buildings department for the year ending December 31, 1913.

The total valuation of the public property which is in the custody of the public buildings department is \$2,358,414.

The total expenditure for the year 1913 for the care and maintenance of this property was \$108,187.06.

The amount was expended as follows:—

Janitor service	\$35,406 30
Fuel	23,105 27
Light	12,811 47
Telephone	529 16
Care and repairs	35,754 10
Pensions	580 76

A table accompanies this report which shows a more detailed explanation of this amount.

Inspection of Buildings.

The Commissioner of Public Buildings is also the inspector of buildings according to the terms of the charter, and as such during the past year has made 1,550 formal inspections of buildings in the process of construction.

The following table shows the number of permits issued for building operations during the year 1913:—

Buildings.	WARDS.							Totals.
	1	2	3	4	5	6	7	
Dwellings	65	13	5	12	29	24	129	277
Stores	6	6	3		2	7	15	39
Dwellings and Stores	5			2	1	3	2	13
Stables		2			1	1		4
Shops			1	1			3	5
Manufactories . .	8	3		1		3		15
Garages	8	1	4	3	3	2	16	37
Churches				1				1
Theatres		1	1		1		1	4
Foundations . . .			2				1	3
Miscellaneous . .	17	8	1	1		2	2	31
Totals	109	34	17	21	37	42	169	429

	WARDS.							Totals.
	1	2	3	4	5	6	7	
Brick buildings	10	6	3	3	1	4	4	31
Concrete buildings	2	1	2		2		10	17
Brick and Concrete buildings							1	1
Iron buildings	2							2
Steel buildings	1					1		2
Terra cotta buildings . . .	1						2	3
Totals	16	7	5	3	3	5	17	56

The number of plumbing permits issued during the year was . . . 457
 Permits for plumbing in new buildings 259
 Permits for plumbing in old buildings 198
 Number of buildings in which soil pipes were tested 389

The total number of permits issued during the year 1913, viz., 429 was two less than during the year 1912, when 431 permits for new buildings and alterations were issued. The total cost of the new buildings and alterations during the year 1913 was \$1,952,179, while the cost in 1912 was \$1,777,719, showing an increase of \$174,460.

School Buildings.

The school buildings of the city are in a very satisfactory condition with a few exceptions. The principal need in several instances, viz., the Knapp, Pope, Glines, Bingham, Carr, Morse, Bennett, Burns and Cummings Schools is outside painting and should be done at once to prevent deterioration. Several of the buildings should also be renovated inside by the tinting of walls and ceilings.

During the year 1913 this department carried out the work of the required needs of the school buildings so far as possible with the money available.

The innumerable calls upon the department for work of every nature in the school buildings require the time and attention constantly of the commissioner who is obliged to select those matters which he considers most important for immediate attention.

During the year 1913 the improvements made at various school buildings were as follows:—

Prescott School.

Yard surfacing (partial).

Knapp School,

Yard surfacing.

- Pope School,
 - Yard extension.
- Bell School,
 - Enlargement of assembly room.
 - Improvement of lighting.
- Forster School,
 - New office for master.
 - New teachers' room.
 - New fire exit.
- Bingham School,
 - New assembly hall.
 - Yard surfacing (partial).
- Cummings School,
 - Yard surfacing.
 - New floors throughout.
 - Interior painting.
- Cutler School,
 - Yard grading and surfacing (partial).

Fire Buildings.

The fire buildings of the city are in a very satisfactory condition except that additional room should be provided for dormitory and toilet accommodations. The increase of permanent men in the department has brought about this need which is apparent in practically all of the houses of the city. It was found necessary during 1913 to entirely renovate the roofing and metal work at the house of Engine 2. Aside from this the work accomplished was largely routine.

Municipal Buildings.

Under this title are included the City Hall and City Hall Annex. Numerous small matters have been attended to as the needs appeared with regard to care of property and equipment.

Public Library.

The use of the Public Library building for library purposes was discontinued in December, 1913, and the library department was installed in its new building which was dedicated December 17, 1913.

Park Buildings.

New shower baths were installed for men and women in the building at Lincoln Park during the year 1913 and the work completed. This improvement affords the people of that section of the city an opportunity for bathing which they greatly appreciate.

Bathing Beach.

The patronage at the bathing beach was very large during the summer and in fact at times indicated the need of an extension to this popular amusement spot. The beach was im-

MAINTENANCE SCHOOL BUILDINGS.

Labor and Material.

	Janitors' Salaries.	Fuel.	Gas Light.	Electric Light and Power.	Repairing Flags.	Repairing Clocks.	Window Shades.	Furniture.	Black-boards.	Tele-phones.	Janitors' Supplies.	Roofing.	Express and Teaming.	Concrete Grading and Care of Grounds.	Care of Team.	Care of Automobile.	Expenses Public Prop-erty Comm.	Incidentals.	Property Damage.	Pensions.	Plastering.	Electric Work.	Carpentry.	Plumbing.	Painting.	Masonry.	Heating Work.	Totals.
Baxter	\$728 00	\$312 47	\$12 16	.....	\$2 00	\$3 00	\$ 75	\$12 00	.....	.....	\$9 90	.....	.....	\$7 50	.....	.....	.....	\$1 23	.....	.....	.....	.....	\$2 50	\$14 93	\$5 00	\$1 50	\$14 52	\$1,180 46
Bell	1,040 00	551 58	127 98	\$143 50	4 00	4 50	4 00	23 50	\$6 00	\$23 07	14 25	\$200 00	\$50 00	2 50	.....	.....	.....	9 10	.....	.....	\$263 15	\$45 05	567 55	131 34	240 46	85 08	118 72	3,605 33
Bennett	937 71	581 76	80 24	.....	.....	4 00	.....	8 25	.....	.....	18 61	.....	.....	6 15	.....	.....	.....	2 71	.....	.....	.....	.....	108 96	36 05	42 23	.....	.....	1,826 67
Bingham	1,100 00	754 22	8 48	135 20	4 00	1 00	.....	12 00	.....	22 17	2 45	.....	.....	.....	.....	.....	.....	5 70	.....	.....	477 10	10 08	763 80	13 83	101 32	2 25	310 67	3,725 73
Brown	821 43	628 87	32 08	8 45	.....	3 00	10 50	2 50	.....	24 85	.....	.....	1 46	12 00	.....	.....	.....	90	.....	.....	.....	125 60	12 50	13 23	14 19	12 90	95 35	1,818 35
Burns	802 00	486 31	55 92	.....	.....	1 50	3 00	31 00	.....	.....	4 70	.....	.....	12 75	.....	.....	.....	9 72	.....	.....	9 50	.....	26 56	94 13	18 60	4 50	213 06	1,773 25
Carr	1,198 00	804 32	37 68	21 80	.....	4 50	4 25	9 35	3 00	27 74	12 20	.....	.....	20 85	.....	.....	.....	1 25	.....	.....	.....	3 80	128 66	16 56	48 10	5 25	6 86	2,354 17
Cummings	687 29	327 40	.....	9 00	5 00	3 00	5 75	31 45	.....	.....	40	.....	.....	16 25	.....	.....	.....	25	.....	.....	.....	7 28	899 44	32 61	275 50	.....	.....	2,300 62
Cutler	1,118 00	1,069 49	.....	256 11	.....	.....	145 00	1 68	.....	19 81	28 60	.....	.....	1,441 01	.....	.....	.....	18 33	.....	.....	.....	12 69	198 51	265 50	233 13	161 24	253 78	5,225 97
Durell	626 00	245 13	.....	.....	.....	.....	.....	23 00	.....	.....	1 60	.....	.....	190 03	.....	.....	.....	.....	.....	.....	.....	.....	9 00	.....	10 50	.....	1 20	1,106 46
Davis	629 00	222 25	25 60	314 25	.....	.....	.....	.....	.....	23 48	.....	.....	.....	2 50	.....	.....	.....	.....	.....	.....	.....	.....	12 56	262 88	20 11	.....	.....	1,512 63
Edgerly	875 56	544 18	69 28	59 00	.....	2 50	.....	3 65	.....	27 00	9 70	.....	.....	.....	.....	.....	.....	70	.....	.....	.....	.....	57 77	34 63	47 43	551 98	5 20	2,288 58
Forster	1,678 00	1,260 85	40 96	66 30	.....	3 50	7 50	55 75	83 00	22 67	.....	75 00	.....	11 45	.....	.....	.....	27 00	.....	.....	.....	178 84	1,147 85	398 21	283 11	501 25	75 05	5,916 29
Glines	951 28	672 82	48 64	506 33	.....	3 50	.....	14 90	.....	22 27	.....	.....	.....	23 20	.....	.....	.....	2 60	.....	.....	.....	7 30	27 28	39 62	42 00	3 63	9 80	2,375 17
Hanscom	702 29	440 70	20 00	297 72	.....	4 50	.....	32 85	.....	.....	14 31	.....	.....	11 10	.....	.....	.....	60	.....	.....	.....	.....	30 78	50 76	11 55	10 88	40 82	1,668 86
Highland	920 00	916 04	63 04	78 30	24 50	4 00	.....	14 50	.....	28 47	3 00	35 00	.....	.....	.....	.....	.....	8 47	.....	.....	.....	2 00	77 16	43 87	51 42	.....	.....	2,299 77
Hodgkins	886 28	544 02	14 24	15 30	5 00	1 00	.....	21 93	.....	19 29	5 25	.....	.....	194 11	.....	.....	.....	5 43	.....	.....	.....	.....	98 45	79 21	48 83	.....	4 62	1,942 96
High	5,200 73	1,965 09	120 75	2,835 63	52 75	16 61	29 65	67 43	.....	60 83	88 93	170 00	16 00	.....	.....	.....	.....	8 05	.....	.....	.....	52 08	143 43	93 58	44 36	21 00	71 96	11,058 86
Girls' Trade	1,037 29	181 81	52 40	59 60	.....	.....	.....	6 50	.....	34 08	50	.....	.....	.....	.....	.....	.....	24 24	.....	.....	.....	9 08	31 61	9 00	7 50	20 25	4 60	1,478 46
Knapp	900 00	701 68	43 60	.....	87 05	6 00	9 22	4 15	.....	25 15	10 40	.....	.....	384 97	.....	.....	.....	.....	.....	.....	.....	3 05	54 35	4 90	36 03	43 92	54 83	2,369 30
Lincoln	10 20	6 45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	10 87	18 82	.....	.....	58 34
Lowe	780 00	416 41	41 68	.....	.....	2 00	3 85	.....	.....	.....	.....	18 50	.....	10 50	.....	.....	.....	.....	.....	.....	.....	.....	19 20	22 07	7 16	9 00	.....	1,230 37
Morse	884 00	690 05	10 88	.....	5 00	4 50	34 50	43 00	.....	23 17	6 95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38 68	5 75	13 60	222 65	14 25	1,996 98
Perry	759 00	445 25	18 16	.....	.....	2 00	.....	9 40	.....	.....	6 70	.....	.....	17 50	.....	.....	.....	.....	.....	.....	.....	85	63 73	8 25	367 75	.....	.....	1,698 59
Pope	912 00	519 43	16 16	303 68	.....	7 00	32 37	43 55	.....	22 67	6 50	.....	.....	30 00	.....	.....	.....	3 00	.....	.....	.....	99 67	46 79	9 40	34 24	20 65	2 66	2,109 77
Prescott	888 57	704 41	9 92	71 80	.....	.....	2 50	3 75	.....	30 24	5 74	.....	6 00	.....	.....	.....	.....	05	.....	.....	.....	1 03	33 86	6 63	27 80	444 90	87 55	2,324 75
Proctor	902 94	498 73	47 60	.....	6 75	13 25	.....	56 70	.....	18 95	5 08	18 31	.....	27 50	.....	.....	.....	.....	.....	.....	.....	1 80	14 10	16 15	18 25	10 88	35	1,657 34
Prospect Hill .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75 72	.....	7 50	.....	.....	.....	.....	.....	.....	.....	.....	71 64	23 41	.....	63 61	.....	241 88
All Schools .....	.....	50 00	.....	.....	17 50	.....	5 00	46 06	.....	53 25	821 33	.....	873 83	39 79	\$544 20	\$341 43	\$6 00	.....	\$25 00	\$344 04	.....	72 23	477 79	9 02	353 71	5 75	80 88	4,166 81
Totals	\$27,975 57	\$16,571 72	\$997 45	\$5,181 97	\$213 55	\$94 86	\$297 84	\$578 85	\$92 00	\$529 16	\$1,077 10	\$592 53	\$947 29	\$2,481 16	\$544 20	\$341 43	\$6 00	\$129 33	\$25 00	\$344 04	\$749 75	\$632 43	\$5,164 51	\$1,716 48	\$2,422 70	\$2,209 07	\$1,466 73	\$73,412 72

proved by the deposit of two hundred tons of beach sand. I hope soon that satisfactory arrangements may be made by the city to establish permanent accommodations at this beach.

Highway Buildings.

The buildings coming under this title are the stables, sheds and workshops used by the Highway department.

The work performed by this department at the Highway buildings was routine work during 1913.

Refuse Buildings.

At the Refuse stable changes were made in the toilet arrangements in order to provide better lobby accommodations for the employees of the department.

City Home Buildings.

The quarters occupied by the superintendent and his family were thoroughly renovated. New floors were installed and the rooms painted and papered throughout. Improvements were also made in the main dining-room to provide for additional room required for the use of inmates.

Hospital Buildings.

The Contagious and Tuberculosis hospitals are in a very satisfactory condition except the arrangement for storing supplies which must be kept under refrigeration. Plans are being made to remedy this matter in the immediate future.

Water Department Buildings.

The buildings used by the Water department need considerable attention to prevent deterioration and plans are being made to improve the condition, more especially the garage section which needs additional heating arrangements and new doors.

High School Addition.

The additions to the High School were constructed during the summer of 1913, and were so nearly completed that the school began its regular work under the one session plan on September 8, 1913.

The plans and specification for these additions were prepared by Harry E. Warren of 6 Beacon Street, Boston, Mass., and the work performed by the following named contractors:—

General Contract..... Walsh Bros.

Heating Radiation..... Charles A. Sanborn

Central Plant..... J. J. Hurley & Co.

All of the contractors were diligent and careful in their

work and assisted in the difficult task of finishing the buildings so that the school could open in September.

New Cells, Police Building.

The work of installing the new cells in the Police building which was authorized by an order of the Board of Aldermen, May 9, 1913, has so progressed that the cells will soon be available for use. This improvement will furnish more humane and sanitary accommodations for the unfortunates who are obliged to be confined while awaiting trial after arrest.

Respectfully submitted,

WALTER T. LITTLEFIELD,
Commissioner of Public Buildings.

	Fuel	Light	Janitors	Pensions	Care	Total
Fire Buildings	\$2,201.24	\$1,416.63	.....	.....	\$1,759.79	\$5,377.66
Highway Buildings	123.15	156.85	.....	.....	976.50	1,256.50
City Home Buildings	805.62	173.48	.....	.....	1,458.61	2,437.71
Con. and Tub. Hospital	963.07	1,187.68	\$430.29	\$170.29	633.26	3,384.59
Central Library	597.21	1,174.93	1,293.86	.....	533.77	3,599.77
West Somerville Branch Library	229.78	352.70	746.00	.....	448.68	1,777.16
East Somerville Branch Library	61.15	49.90	251.45	.....	380.35	742.85
Union Square Branch Library .	191.31	48.45	397.13	.....	260.73	897.62
Municipal Buildings	526.19	863.23	2,265.64	66.43	2,351.68	6,073.17
Police Buildings	514.57	610.77	1,147.64	.....	1,495.21	3,768.19
Park Buildings	64.51	22.62	.....	.....	212.26	299.39
Refuse Buildings	80.63	277.81	.....	.....	634.75	993.19
Polling Places . . . . .	.....	41.00	.....	.....	646.80	687.89
Sewer Buildings	32.25	.....	.....	.....	57.13	164.38
Water Buildings	192.87	256.00	.....	.....	568.00	1,016.87
Bathhouse . . . . .	.....	.....	848.72	.....	1,448.18	2,297.40

REPORT OF COMMISSIONER OF ELECTRIC LINES AND LIGHTS.

OFFICE OF COMMISSIONER OF ELECTRIC LINES AND LIGHTS, }
January 1, 1914. }

To the Honorable, the Mayor, and the Board of Aldermen of the City of Somerville:—

Gentlemen,—I most respectfully submit my fifth annual report as commissioner of electric lines and lights for the year ending December 31, 1913.

Inspection of Wiring in Buildings.

The inspection of interior wiring for light, heat and power has been given the same careful attention as in previous years.

The efforts of the electrical inspector are directed towards obtaining better construction which means the safer installation of electric wires and appliances.

It is unfortunate that the inspector often finds it necessary to teach incompetents how to do ordinary electric wiring.

This condition exists in cities and towns where there is no registration or licensing of electricians.

The average property owner knows very little if anything of electrical construction and it is quite natural that he should become the victim of cheap wiremen or that he should turn to the janitor, school boy, gardener or some other equally skilled artisan when extensions to existing wiring or alterations are to be made.

When wiremen of this class have been employed it is necessary that the inspector show them how to do a great deal of the work.

The electrical inspector acting as superintendent of construction on any job of wiring imposes unfair burdens upon him and encourages incompetent wiremen to enter the electrical construction business, and thus works a hardship on legitimate contractors.

It also takes a large amount of time which is needed for other work.

The endeavor to prevent inexperienced and incompetent persons from undertaking electrical construction is proper and would protect the public from being imposed upon by unreliable contractors and lessen the burdens of the electrical inspector.

Number of notifications of new work received	850
Number of inspections of new work	850
Number of re-inspections of new work	690
Number of inspections of old work	290
Number of defective installations of old work	8
Number of defective installations remedied	8
Number of re-inspections of old work	10
Total number of inspections	1,840

Number of permits issued to the Edison Electric Illuminating Company for installing meters, lamps, etc.	1,033
Number of incandescent lamps	16,022
Number of arc lamps	4
Number of motors	96
Horse power of motors	324

Construction, etc., of the Fire and Police Alarm Systems.

FIRE ALARM SYSTEM.

The increasing number of alarms which are received and transmitted each year, requires a modern fire alarm system to be able to handle promptly and accurately alarms when sounded from boxes on the street.

While the present automatic system has given admirable results in the past, there have been times when it has been taxed to its full capacity and only by constant watchfulness have confusing signals been averted.

The signal boxes have been improved by installing modern break wheels and contact springs which removes to a great extent the chances of incorrect signals.

The advent of motor apparatus also necessitates a quicker striking alarm to enable the fire department to make a more prompt response to an alarm of fire. This cannot be obtained with the present system.

The housing of gasoline motor apparatus in the building, the top floor of which is utilized as the headquarters for the fire alarm system, has added greatly to the chances of fire which would be liable to put this signal system out of commission. To properly protect the same it should be removed to a separate fire-proof building.

There have been 343 alarms transmitted during the year, an increase over last year of fifty-six alarms.

One new box has been installed this year:—

No. 151, Pennsylvania avenue, opposite Michigan avenue.

The fire alarm equipment consists of the following:—

125 signal boxes, one eight-circuit automatic repeater, eight tower strikers, thirty-one gongs, seven indicators, two punch registers, forty-three tappers, one automatic steam whistle, twelve private telephones connecting the various stations, 530 cells of storage battery, about 130 miles of overhead wire, and 47,648 feet of underground cable.

There has been run 24,800 feet of new triple braid covered wire and 99,500 feet of old has been removed.

1,000 feet of twisted pair has been run for telephones, etc., and 2,550 feet of old has been removed.

4,688 feet of lead-covered cable, consisting of two, four, sixteen and eighteen conductors have been placed underground on Highland avenue and Holland street from Grove street to Teele square and the old overhead wire has been removed.

POLICE SIGNAL SYSTEM.

The new system which was purchased last year has been installed and is working with entire satisfaction.

Three new signal boxes have been installed as follows:—

Beacon street, corner of Oxford street.

Meacham street, corner of Fremont street.

Lincoln Park.

Supervision of Poles and Wires on the Streets and Underground Conduits and Wires.

The same attention has been given to the condition of poles and wires on the streets as in previous years.

A large number of defective poles have been replaced by the companies owning the same.

New poles have been placed in locations granted for the purpose of supplying light and telephone service, and abandoned poles have been removed.

	New Poles.	Re- placed.	Re- moved.	Re- set.
New England Telephone & Telegraph Co.	4	22	22	6
Edison Electric Illuminating Co.	82	198	26	4
Boston Elevated Railway Co.	22	—	—	1
Permits given to the New England Telephone & Telegraph Co. for attachments to the Edison Co.'s poles				692
Permits given to the Edison Electric Illuminating Co., for attachments to New England Telephone Co.'s poles				55

The Edison Electric Illuminating Company has removed its wires on Pearl street from Mt. Vernon street to Gilman square and placed the same underground.

Street Lighting.

The matter of street lighting has been given the same attention as in previous years and a number of changes have been made in the kind of lamps and the location of the same.

Magnetite lamps have been installed on Holland street, Davis square, Highland avenue, Walnut street, Bow street, Union square, Webster avenue and Prospect street, replacing the old arc lamps.

	Number of street lights, January 1, 1913. January 1, 1914.	
Magnetites	56	123
Arcs	405	339
Incandescents 100 c. p.	47	72
Incandescents 40 c. p.	814	857

Electrical Department.

CREDIT.

Appropriation	\$10,000 00
Amount carried forward	\$10,000 00

Amount brought forward	\$10,000 00
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DEBIT.

Salaries	\$5,806 00
Fire alarm system	2,632 42
Police alarm system	584 64
Inspection of electrical work	383 67

Total debit	\$9,406 73
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Balance unexpended	\$593 27
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Underground Construction.

CREDIT.

Appropriation	\$3,000 00
Balance unexpended, 1912	1,394 53

Total credit	\$4,341 35
------------------------	------------

DEBIT.

Labor	\$939 00
Materials	1,394 53

Total debit	\$2,333 53
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Balance unexpended	\$2,007 82
------------------------------	------------

Street Lighting.

CREDIT.

Appropriation	\$56,000 00
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DEBIT.

Street lighting	\$55,970 00
Changing street lights	14 00
Incidentals	16 00

Total debit	\$56,000 00
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Recommendations.

I respectfully recommend that:—

The matter of providing suitable quarters for the fire alarm system be considered.

The present fire alarm system be replaced by a modern, quick time system when such suitable quarters are provided.

Conclusion.

I wish to thank his honor, the mayor, the members of the board of aldermen, and the several departments for courtesies received.

Respectfully submitted,

WALTER I. FULLER,

Commissioner of Electric Lines and Lights.

SOMERVILLE WATER WORKS.

SOMERVILLE, MIDDLESEX CO., MASSACHUSETTS.

Location : Somerville City Hall (near centre of the city) is $2\frac{3}{4}$ miles northerly from State House in Boston.

Greatest extent of the City north and south about 4.2 miles.

Greatest extent of the City east and west about 2.1 miles.

Elevation Highland avenue at City Hall 105 feet above mean low water.

Lowest building elevation in the city 13 feet.

Highest building elevation in the city 145 feet.

Area of city, including land and water, about 4.22 square miles.

Land, 2,461.50 acres : water and marsh, 238.50 acres.

Population, census, 77,236.

Entire population on line of pipe and supplied with water.

Water works owned by City of Somerville.

Construction commenced in 1868.

Source of supply : Metropolitan system, taking water of the Nashua river at Clinton, Mass.

Range of pressure on street mains :

Low service 35 to 65 pounds.

High service 45 to 100 pounds.

Mayor

HON. CHARLES A. BURNS.

Water Commissioner

FRANK E. MERRILL.

Office of the Water Department,

Room 10, City Hall.

Department Buildings and Yard,

Cedar street, near Broadway.

REPORT OF THE WATER COMMISSIONER.

OFFICE OF THE WATER COMMISSIONER, }
January, 1914.

To His Honor, the Mayor, and the Board of Aldermen:—

I present herewith my report for the year ending December 31, 1913, this being the fortieth annual report of the water department and my fourteenth as water commissioner:—

Receipts and Expenditures.

Water bills have been issued as follows:—

"Annual" water charges, amounting to	\$75,081 35
"Additional" water charges, amounting to	3,168 92
"Metered" water charges, amounting to	155,455 99
	\$233,706 26

	Annual and Additional.	Metered.	
Abatements on above charges	\$1,102 13	\$295 69	
Refunds on above charges	206 67	18 60	
Abatements on 1912 charges	.....	1 40	
Refunds on 1912 charges	20 00		
	\$1,328 80	\$315 69	
			\$1,644 49

Income from sale of water		\$232,061 77
Receipts from water service assessments . .	\$5,079 51	
Receipts for labor and materials sold:—		
Municipal departments	975 46	
Outside accounts	3,950 31	
		10,005 28
Total income of water works		\$242,067 05

This amount was used as follows:—

For water works purposes:—

Water works maintenance	\$33,890 51	
Water works extension	15,144 93	
Pensions	643 83	
Miscellaneous accounts	10,005 28	
		\$59,684 55
Interest on water loan bonds	1,500 00	
Maturing water loan bonds	6,000 00	
Metropolitan water works assessment . .	116,320 88	
		\$183,505 43

For other municipal purposes:—

Appropriated to Highway Department	\$1,000 00
Appropriated to Public Buildings Department	989 35
General revenue, for benefit of all municipal departments	56,572 27
	\$242,067 05

In addition to the appropriations from water income to other municipal purposes enumerated above, water has been furnished without charge to all the city departments that have required its use and it is paid for out of the income from sale of water.

Department Receipts and Disbursements.**WATER MAINTENANCE ACCOUNT.**

	Dr.	Cr.
Amount appropriated by board of aldermen from estimated sales of water and operating receipts of the water department		\$37,000 00
Amount transferred from Water Works Extension account		2,500 00
Sundry accounts for labor and materials furnished municipal departments		867 20
Materials used in extension of the water works		14,077 33
Amount expended for labor and materials for operation, maintenance, and renewal of the water works	\$33,890 51	
Amount expended for materials used in extension of the water works	14,077 33	
Pensions	643 83	
Miscellaneous accounts	3,950 31	
Labor and materials furnished municipal departments	867 20	
Unexpended balance	1,015 35	
	\$54,444 53	\$54,444 53

WATER WORKS EXTENSION ACCOUNT.

	Dr.	Cr.
Amount appropriated by board of aldermen from estimated sales of water and operating receipts of the water department		\$25,000 00
Sundry accounts for labor and material furnished municipal departments		108 26
Amount transferred to Water Maintenance account	\$2,500 00	
Amount transferred to Highway Department	1,000 00	
Amount expended for labor and materials used in extension of the water works	\$15,144 93	
Miscellaneous accounts	5,187 77	
Unexpended balance	1,275 56	
	\$25,108 26	\$25,108 26

Cost of Water Works.

The total cost of the water works on December 31, 1912, as represented by the expenditures from appropriations for water works extension was	\$963,135 00
Expended during the year 1913, on extension account	15,144 93
Total expenditures, December 31, 1913	\$978,279 93

Water Debt.

Water loan bonds have been issued on funded debt account to the amount of \$1,017,000; this has been reduced by \$985,000, leaving the water debt on December 31, 1913, \$32,000.

The outstanding bonds mature as follows:—

YEAR.	AMOUNT.	YEAR.	AMOUNT.
1914	\$6,000	1918	\$5,000
1915	5,000	1919	4,000
1916	5,000	1920	2,000
1917	5,000		

Water Works Income from 1898 and its Distribution.

The water income and its distribution from 1898 to 1913, inclusive, is shown in the following table:—

Total water income, years 1898 to 1913, inclusive . . . 3,622,727 89
Distribution:—

Water Works Account.

Water Works Construction, Renewal, Main- tenance and Operation	\$878,768 13	
Water Bonds	242,000 00	
Interest	82,035 00	
Metropolitan Water Assessments	1,313,178 28	
		\$2,515,981 41

Other Municipal Accounts.

Various municipal departments through specific appropriations and general revenue account	\$1,106,746 48
	\$3,622,727 89

Income and Appropriations.

The net income from the sale of water in 1913 was \$232,061.77, a decrease of \$1,790.30, due presumably to the effect of meterage of services. The revenue from metered services has increased four per cent., or to sixty-seven per cent. of the net income from water rates.

While the income from water service assessments and from accounts with municipal departments shows a small gain over the previous year, the general miscellaneous accounts show a large decrease in amount, resulting from the comparatively small requirements of the grade-crossing elimination work of the year, the cost of which has, in recent years, been a considerable item and has been charged back to the railroad company.

There was expended for the maintenance, renewal, operation and extension of the water works in all its branches the sum of \$49,035.44; for pensions, \$643.83; for work done for property owners, grade-crossing changes, etc., \$10,005.28; for interest and maturing water bonds, \$7,500.00; and to the State, as the city's assessment for the Metropolitan water works,

\$116,320.88; a total of \$183,505.43. The surplus balance of income after paying all expenses of the water works was \$58,561.62.

The decrease in demands upon the department for labor in connection with the grade-crossing work shows its effect also in the figures giving the cost of maintenance and operation of the water works, which increases proportionately to the decrease in amount of outside accounts. The total amount of all expenditures for water works maintenance, extension and miscellaneous accounts was \$59,040.72, as compared with \$64,572.49 the previous year.

The appropriations recommended by the water commissioner for the use of the department for the year 1913 were approved by the mayor and passed by the board of aldermen. The estimates submitted covered some expected grade-crossing elimination at Park street, which failed, however, to materialize. As a result thereof there remained at the close of the year an unexpended balance in the department accounts of \$2,290.91, which was turned back into the treasury accounts. The balance would have been considerably in excess of this amount had it not been for an unexpectedly large demand upon the appropriation for service work in connection with permanent street paving jobs toward the close of the year, and for pensions, which had not been included in the budget.

Pensions.

The city having accepted the provisions of Chapter 503, of the Acts of 1912, relative to pensioning laborers in the employ of cities and towns, requests were made during the year by three men for retirement on pensions. These were granted by the mayor as follows:—

Hervéy W. King, from January 6, 1913, at \$7.55 per week.

Richard Whalen, from May 26, 1913, at \$6.24 per week.

Andrew McCaffrey, from August 24, 1913, at \$3.63 per week.

While these payments were directed to be made from the appropriation for water works purposes, the amount so expended does not seem to be strictly chargeable to the maintenance, operation, or construction of the system, so a special item known as Pensions has been set up in the distribution table of the water income.

WATER DISTRIBUTION SYSTEM—CONSTRUCTION.**STREET MAINS.**

The number of feet of street mains laid during the year just closed is 6,769; there has also been laid 106 feet of pipe for hydrant connections and 34 feet for blow-off discharges, making a total of 6,909 feet; 4 feet have been removed or abandoned. The net increase is 6,905 feet, and the total mileage in the city is approximately 98.65.

The sizes and lengths of pipe laid and abandoned are as follows:—

Size.	Feet laid.	Feet abandoned	Size.	Feet laid.	Feet abandoned
1"	42	0	8"	1,656	0
2"	112	0	10"	1,678	0
4"	38	4	12"	271	0
6"	3,112	0			

The principal street mains laid during the year are as follows:—

Street.	Size of main.	Street.	Size of main.
Albion court	2"	Mason street	10"
Bailey street	8"	Michigan avenue	10"
Burnham street	8"	Minnesota avenue	6"
Central hill road	8"	Osgood street	6"
Central road	1"	Powder house boulevard	
	2"	(north side)	12"
	6"	Powder house boulevard	
Curtis avenue	6"	(south side)	10"
Hamilton road	8"	Russell road	8"
Hillsdale road	8"	Taylor street	6"
Illinois avenue	6"	Vermont avenue	10"
Indiana avenue	6"	West Quincy street	6"
Leonard street	6"		

Grade Crossings.

No additional grade-crossing elimination work was taken up during the year, efforts being confined to finishing up the streets in connection with the work previously undertaken. The bridge over the railroad tracks at Dane street has now been constructed and the water main carried over it and connected at both ends with the pipes laid in the previous year, so that the job is now completed and the water is in full circulation.

Hydrants, Gates.

There have been seventeen hydrants set and one removed during the year, making the net increase sixteen and the total number in the city, 1,115.

The total number of private hydrants supplied from the city mains is fifty-nine.

Thirty-four gate valves have been set during the year and one has been removed, making a net increase of thirty-three, and a total of 1,599 in the service.

Five blow-offs have been constructed and one has been removed, and the number in the city is increased to 159.

No new waterposts for street sprinkling have been set, but four have been removed, the total number in service being 79. Two new combination drinking fountains have been installed, making the total in the city eight.

Water Services.

The number of new water services laid during the year was 241, a decrease of 23 from the previous year.

The length of all the service pipes installed was 8,947 feet, and the amount received in charges made for the work was \$5,079.51.

Ten service connections were permanently discontinued and the length of pipe abandoned was approximately 435 feet. The number of services in use in the city is estimated to be 12,827, and the total length of service pipe 83.67 miles. Six-inch fire services have been installed at the factories of the American Tube Works on Church street, H. M. Hillson & Co., on Taylor street, and Stephens & Horssman on Newberne street. One four-inch pipe was laid for the Park garage at 161 Broadway for building and elevator service.

Water Meters.

The number of meters installed during the year on new services and on old services hitherto unmetered was 687; seventy-six which had been removed for various causes were reset; seventy-eight were removed on account of permanent or temporary discontinuance of use of water and for substitution of other meters. The net increase in number of operating meters was 685, making the total number of meters and motors in service on December 31, 7,856, or about sixty-one per cent. of the number of service pipes in the city.

The kinds and sizes of all meters now installed are shown in the following table:—

OPERATING METERS DECEMBER 31, 1913.

KIND.	SIZE.								Total.
	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	
Nash . . .	178								178
Empire . . .	6								6
Crown . . .	5	4	3	2	2	2			18
Gem . . .							1		1
Hersey . . .			4	1	1	2			8
Hersey Disc	256	23	3	1	4				287
Torrent . . .								1	1
Trident . . .	457	45	21	4	4		1		532
Trident Crest					2	2	2		6
Trident Comp.					7	2	2		11
Union . . .	17	13	7	1	4				42
Union Special		15	3	2					20
Columbia . . .	100								100
King . . .	644								644
Lambert . . .	3,270	138	23	1					3,432
Worthington									
Disc . . .	2,532	6							2,538
Keystone . . .	25								25
Totals . . .	7,490	244	64	12	24	8	6	1	7,849
Motor and ele- vator registers									7
									7,856

The meters installed in 1913 were classed as follows:—

Applications of property owners	179
New services	255
General installation	253
Reset	76

Total 763

Meters were removed for the following causes:—

Vacancies and temporary non-use of water	50
Services permanently discontinued	3
Replaced by other meters	25

Total 78

Under the provisions of the Metropolitan Water Act it is necessary that there be installed in this city at least 411 meters each year on services previously unmetered, and meters on all new services when they go into regular use. The number of meters set during the year in excess of the actual requirements of the state law was twenty-one.

The following table gives a summary of the pipes and fixtures of the water system December 31, 1913:—

Summary of Pipes and Fixtures.

Feet of main pipe (approximately)	520,861
Feet of service pipe (approximately)	441,744
Service connections (approximately)	12,827
Public fire hydrants	1,115
Private fire hydrants	59
Gates	1,599
Check valves	7
Meters	7,849
Motor registers	7
Waterposts	79
Blow-offs	159
Drinking fountains and troughs	8

WATER DISTRIBUTION SYSTEM—MAINTENANCE.

The main distribution system continues in good condition, there having been an average of but one leak discovered for each ten miles of street mains. One of these leaks was from a cracked pipe in the old twenty-inch main in Washington street near Boston street, which has given us much trouble from time to time.

The winter of 1912-1913 was a very mild one and no particular trouble was experienced from frozen hydrants and services.

Waterposts and Fountains.

Five waterposts used in the street sprinkling service have been removed. One was reset in a different location and two were combined with drinking fountains in the new free water service stations; the number of cart connections now being seventy-nine.

The water commissioner has recently devised a combination drinking fountain, horse-watering service and watering-cart connection, which is thought by those who have used it to be very economical and practical. The different parts are built in and around an ornamental box and post standing on the sidewalk just inside the curbing, similar in size to a police signal box. Inside the box, which has a locked door, is the system of water pipes and valves for feeding the various fixtures, and a two-inch hose connection for the watering carts. On the sidewalk front of the box is attached an iron basin with a bubbler tip controlled by a self-closing cock for furnishing drinking water to persons, and on the end of the box is a self-closing cock for filling pails for the use of horses; attached to the foot of the post is also a basin for small animals fed by the waste water from the bubbler through the interior of the post. The boxes are conspicuously lettered "City of Somerville, Free Water." One of these service stations has been set up near Teele square and has called forth much favorable comment.

Another has been placed in Gilman square, but is without the drinking attachment for persons, as an individual drinking fountain is located nearby.

Services.

The number of cases of poor pressure on old water services continues to increase, and cleaning out the pipes and fittings and providing a good flow of water has grown into an important branch of the department work. In fact the demands for improved service conditions have now become so frequent as to require practically the sole attention of one gang of men, and there appears to be no likelihood of any relief as the service pipes are continually growing older and in need of attention.

During the latter part of the year a notification was received by the department of contemplated permanent paving in Water street, Tufts street, Temple street and Elm street, and it was deemed advisable to renew the service pipes in those streets before the pavement was laid.

Meters.

The meter system is continually growing under requirements of the State law. The meters as a whole are doing very satisfactory work and giving no more trouble than might be expected from the delicate construction of their operating mechanism. It was found necessary to remove for repairs 243 meters, or approximately only three per cent. of the total number in operation, and the larger part of these troubles arose through no fault of the meter's construction.

Water Assessments and Consumption.

The annual assessments paid by this city as its proportionate part of the cost and operation of the Metropolitan water works are given below:—

Year.	Sinking Fund.	Maintenance.	Interest.	Maturing Bonds.	Total.
1898	No division	made			\$14,250 19
1899	" "	"			20,975 58
1900	" "	"			28,689 24
1901	\$12,491 73	\$12,033 79	\$32,291 24		56,816 73
1902	19,014 85	12,955 64	30,427 40		62,397 89
1903	15,748 56	12,763 10	48,776 77		77,288 43
1904	16,404 42	15,393 87	54,938 64		86,736 93
1905	21,358 11	13,666 71	55,535 91		90,560 73
1906	22,345 50	17,412 51	57,402 07		97,160 08
1907	25,365 30	18,880 01	62,089 30		106,334 61
1908	24,865 73	15,221 12	68,604 23		108,691 08
1909	24,812 23	21,220 56	66,540 41		112,573 20
1910	25,018 52	18,212 28	66,825 45		110,056 25
1911	25,424 55	19,573 82	69,849 26	\$246 66	115,094 29
1912	24,469 82	16,111 70	68,205 16	445 46	109,232 14
1913	24,930 94	20,691 19	70,206 83	491 92	116,320 88
					\$1,313,178 28

There has been credited to the city by the commonwealth as its proportion of the amounts received from entrance fees, water supplied outside the district, and water furnished to water companies the sum of \$9,056.10.

The daily consumption of water in Somerville, as recorded by the Venturi meters, operated by the Metropolitan water works, is shown below by months for the year 1913:—

Month.	Gallons per day.	Gallons per capita.	Month.	Gallons per day.	Gallons per capita.
January	6,144,100	75	July	6,226,500	75
February	6,740,400	82	August	5,572,200	67
March	6,219,900	76	September ...	5,478,400	66
April	6,019,800	73	October	5,445,100	65
May	6,121,700	74	November	5,411,700	65
June	6,357,700	77	December	5,835,200	70

The consumption for the year was: Low-service, 1,710,116,000 gallons; high-service, 464,550,000 gallons; making the total for the year 2,174,666,000 gallons, and an average daily consumption of 5,958,000 gallons.

The average daily quantity of water used in Somerville during 1913 was seventy-two gallons per inhabitant, a decrease of seven gallons over the previous year's consumption and of two gallons over the lowest consumption previously recorded; the average for the entire district was ninety-four gallons daily per capita, a decrease over last year of thirteen gallons per capita.

The following table shows the daily per capita consumption of water in the cities and towns in the Metropolitan water

district for the year 1913, as registered by the Metropolitan meters:—

City or Town.	Jan.	Feb.	Mar.	Apr.	May	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Yea
Boston	118	124	109	104	105	107	109	105	107	107	103	103	108
Somerville	75	82	76	73	74	77	75	67	66	65	65	70	72
Malden	42	45	45	45	47	50	51	48	48	46	46	45	46
Chelsea	85	87	81	82	85	85	84	79	79	77	73	71	80
Everett	66	77	67	63	61	67	70	69	62	60	60	63	65
Quincy	67	72	74	75	73	83	92	87	77	71	69	72	76
Medford	47	49	51	50	49	51	54	47	46	47	46	43	48
Melrose	64	67	67	71	75	80	82	75	72	58	56	54	68
Revere	60	68	60	60	66	76	89	70	74	65	59	59	67
Watertown	58	59	60	61	62	67	68	59	62	61	62	60	62
Arlington	60	57	56	50	61	79	94	72	60	59	53	51	63
Milton	33	34	35	35	40	45	46	41	40	42	41	38	39
Winthrop	49	50	51	52	57	75	94	85	59	51	51	49	60
Stoneham	53	53	51	51	59	63	65	55	54	49	43	39	53
Belmont	57	61	59	62	71	89	115	91	74	68	68	64	73
Lexington	54	56	56	63	66	68	87	82	76	66	63	60	67
Nahant	45	55	42	58	97	199	347	289	151	77	51	48	123
Swampscott	54	59	47	47	59	83	105	93	66	51	49	47	63
Metropolitan dist.	99	105	94	90	91	95	98	93	92	91	88	88	94

The district, in order of consumption, beginning with the lowest, stands as follows for the year 1913:—

City or Town.	Gallons.		
	Total per Day.	Per Capita per Day.	Per cent. of Services Metered.
1—Milton.....	332,300	39	100
2—Malden	2,225,700	46	98
3—Medford	1,233,700	48	100
4—Stoneham	414,400	53	75
5—Winthrop	689,700	60	100
6—Watertown	868,500	62	100
7—Swampscott	420,100	63	100
7—Arlington	786,300	63	100
8—Everett	2,435,800	65	40
9—Lexington	359,300	67	75
9—Revere	1,385,100	67	50
10—Melrose	1,136,600	68	100
11—Somerville	5,958,000	72	61
12—Belmont	463,600	73	100
13—Quincy	2,699,100	76	86
14—Chelsea	2,879,800	80	100
15—Boston	79,390,600	108	42
16—Nahant	169,100	123	80

It is noted in the above table that the daily per capita consumption in Somerville decreased from the figures of the previous year, being seventy-two, or seven gallons lower than in 1912, and a comparison shows a general decrease throughout the water district, due, undoubtedly, to the mildness of the winter, on account of which less water is allowed to run to waste, and to the steady introduction of water meters.

The table also gives a column showing the percentage of services now metered throughout the Metropolitan water district.

Attention may again be properly called to the need of

stopping all useless wastes of water. The conservation of the water supply has become one of the most important functions of this department, as the water consumption of the city has a direct and large bearing on the annual assessment levied on us by the State Metropolitan Water Board. This assessment is not made, as many suppose, on a rate basis, such as a certain price per million gallons, but is made on a proportionate division of the Metropolitan water district's annual requirements to meet maintenance, sinking fund, interest and maturing bonds; based one-third on the valuation and two-thirds on the water consumption of the several cities and towns in the district. It is never possible, therefore, to determine in advance with much accuracy what our annual assessments for water for another year will be, as much depends upon the proportionate use of water in seventeen other portions of the district. As an example of the operation of this method of division it may be stated that this city's apportionment of the expenses for 1914 will probably be increased some \$3,400.00, and this not because Somerville has not made a good showing in reducing its water waste, for the past year's record was the best in the history of the city, being only seventy-two gallons per capita, but principally because the city of Boston has made such a notable reduction in its former excessive consumption, from 125 down to 108 gallons per capita, which means a large lowering of the water assessment for that city and a consequent increase in that, not only of Somerville, but of most of the other cities and towns in the district. It is of importance, therefore, for all who have the financial interests of the city at heart to see to it that city water, which means city money, is not allowed to needlessly run to waste.

New Legislation.

Legislation has been passed or accepted by the city voters affecting laborers, workmen and mechanics employed in the water and other departments, which has become operative during the year 1913, as follows:—

Section 36, Chapter 19, Revised Laws; being a portion of the Civil Service Act, so-called, as applied to laborers.

Section 42, Chapter 514, Acts of 1909, as affected by Chapter 494, Acts of 1911; being the so-called eight-hour law.

Chapter 503, Acts of 1912, relative to pensions of laborers.

Chapter 807, Acts of 1913; the workmen's compensation act.

Respectfully submitted,

FRANK E. MERRILL,

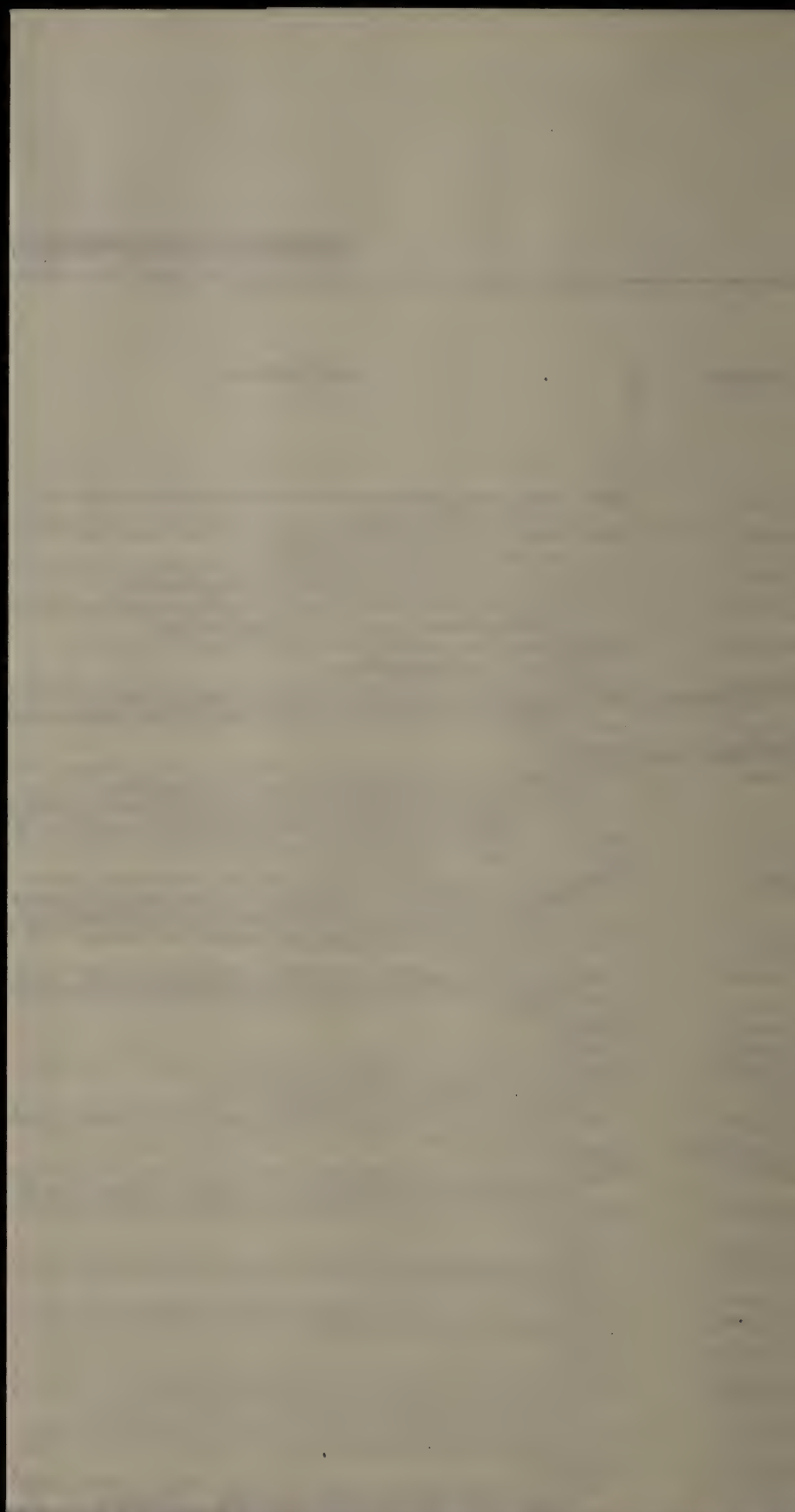
Water Commissioner.

Gates Set in New Locations.

- Albion court, 2-inch gate, set 4 feet out from west line of Albion court and 5 feet north from south line of Albion street.
- Bailey street, 8-inch gate, set 13 feet 4 inches out from south line, on west line of West Adams street.
- Burnham street, 8-inch gate, set 13 feet 4 inches out from east line, on north line of Broadway.
- Burnham street, 8-inch gate, set 13 feet 4 inches out from east line, on south line of Powder House boulevard.
- Central Hill Municipal buildings, 8-inch gate, set in sidewalk on School street, 75 feet south from south line of Madison street, and 5 feet out from east line of School street.
- Central Hill Municipal buildings, 8-inch gate, set on east line of City Hall, and 13 feet out from north line of City Hall.
- Central road, 6-inch gate, set 3 feet out from south line of Central road, on west line of Sycamore street.
- Central road, 6-inch gate, set 13 feet 4 inches out from east line of Central road, on south line of Central road, 233 feet west from west line of Sycamore street.
- Central road, 6-inch gate, set 13 feet 4 inches out from south line, on east line of Central street.
- Curtis avenue, 6-inch gate, set 13 feet 4 inches out from south line of Curtis avenue, on east line of Hillsdale road.
- Dynamo street, 4-inch gate, set 114 feet west from west line of Willow avenue, and $3\frac{1}{2}$ feet out from north line of Dynamo street.
- Hamilton road, 8-inch gate, set 13 feet 4 inches out from south line of Hamilton road, on east line of North street.
- Hamilton road, 8-inch gate, set 13 feet 4 inches out from south line of Hamilton road, on west line of Russell road.
- Illinois avenue, 6-inch gate, set 13 feet 4 inches out from west line, on south line of Pennsylvania avenue.
- Illinois avenue, 6-inch gate, set 13 feet 4 inches out from west line, on north line of Broadway.
- Indiana avenue, 6-inch gate, set 13 feet 4 inches out from west line, on north line of Broadway.
- Indiana avenue, 6-inch gate, set 13 feet 4 inches out from west line, on south line of Pennsylvania avenue.
- Leonard street, 6-inch gate, set 13 feet 4 inches out from east line of Leonard street, and on south line of Powder House boulevard.
- Leonard street, 6-inch gate, set 13 feet 4 inches out from east line of Leonard street, on north line of Broadway.
- Leonard street, 4-inch gate, set 23 feet out from west line of Leonard street, and 16 feet south from north line of Walker street; on blow-off branch.
- Loring street, 6-inch gate, set 12 feet 6 inches out from west line of Loring street, on south line of Osgood street.
- Mason street, 10-inch gate, set 13 feet 4 inches out from west line of Mason street, on north line of Broadway.
- Medford street, 8-inch gate, set 11 feet north from south line (extended) of Ward street, and 22 feet 6 inches out from east line of Medford street.
- Michigan avenue, 10-inch gate, set 13 feet 4 inches out from west line, on south line of Pennsylvania avenue.
- Osgood street, 6-inch gate, set 17 feet out from north line of Osgood street, and on east line of Granite street.
- Osgood street, 4-inch gate, set 17 feet out from north line of Osgood street, and 129 feet east from east line of Granite street; on blow-off branch.
- Powder House boulevard (south side), 10-inch gate, set 17 feet out from south line of Powder House boulevard, on east line of North street.

STREET MAINS, GATES, HYDRANTS, ETC., LAID, SET AND REMOVED IN 1913.

STREET.	DESCRIPTION.	PIPE.				GATES.				HYDRANTS.				BLOW-OFFS.				WATER POSTS.	
		LAID.		ABANDONED.		SET.		REMOVED.		SET.		REMOVED.		SET.		REMOVED.		SET.	REMOVED.
		Size.	Feet.	Size.	Feet.	Size.	No.	Size.	No.	Size.	No.	Size.	No.	Size.	No.	Size.	No.	No.	No.
Albion court	Street main; from connection with main in Albion street to point 47' 4" south from south line of Albion street.	2"	74			2"	1												
Bailey street	Street main; from connection with main in West Adams street to point 27' west from east line of West Quincy street.	8"	241			8"	1												
Barton street	Street main; from connection with main in Hamilton road to connection with main in Barton street at south line of Hamilton road.	6"	12																
Belknap street	Street main; from connection with main in Hamilton road to connection with main in Belknap street at south line of Hamilton road.	6"	13																
Burnham street	Street main; from connection with main in Broadway to gate set on south line of Powder house boulevard.	8"	590			8"	2												
Burnham street	Hydrant.	6"	7							6"	1								
Central hill mun. bldgs.	Main pipe; from connection with main in school street at point 75' south from south line of Madison street to point 117' east from east line of School street.	8"	145			8"	2			6"	1								
Central hill mun. bldgs.	Hydrant.	6"	4							6"	1								
Central road	Main pipe: No. 1; from connection with main pipe in Sycamore street to 6x6x6 tee at point 233' west from west line of Sycamore street.	6"	279			6"	2												
	No. 2; from 6x6x6 tee (No. 1.) to point 22' south from 6x6x6 tee.	2"	38																
	No. 3; from 6x6x6 tee (No. 1.) to point 38' north from 6x6x6 tee.	1"	42																
	No. 4; from 38' north from 6x6x6 tee (No. 1.) to point 80' north from 6x6x6 tee (No. 1.)																		
Central road	Main pipe; from connection with 6" pipe in Central road at point 22' south from 6x6x6 tee set 233' west from west line of Sycamore street southerly to 6"-1/4 bend in Central road set 103' south from above mentioned 6x6x6 tee. No. 2 from above mentioned 6"-1/4 bend, westerly to connection with main pipe in Central street.	6"	299			6"	1												
Curtis avenue	Main pipe; from connection with main pipe in Hillsdale road to connection with Main in Curtis avenue at point 421' west from west line of Curtis street laid in 1912.	6"	199			6"	1												
	Hydrant.	6"	7							6"	1								
	Hydrant.	4"	4							4"	1								
	Main gate.					4"	1											1	1
Curtis avenue	Water post; 25' west from Burnside avenue.																		
Curtis street	Water post; 47' east from Cross street.																		
Dynamo street	Main pipe; from connection with main pipe in North street to connection with main pipe in Russell road.	8"	589			8"	2												
Elm street	Hydrant.	6"	7							6"	1								
Flint street	Main pipe; from connection with main pipe in Curtis avenue to point 23' south from south line of Curtis avenue connecting with pipe laid in 1911.	8"	36																
Hamilton road	Main pipe; from connection with main pipe in Pennsylvania avenue to gate set on north line of Broadway.	6"	449			6"	2			6"	1								
Hamilton road	Hydrant.	6"	8							6"	1								
Hillsdale road	Main pipe; from connection with main pipe in Curtis avenue to point 23' south from south line of Curtis avenue connecting with pipe laid in 1911.	8"	36																
Illinois avenue	Main pipe; from connection with main pipe in Pennsylvania avenue to gate set on north line of Broadway.	6"	449			6"	2			6"	1								
Illinois avenue	Hydrant.	6"	8							6"	1								
Indiana avenue	Main pipe; from connection with main pipe in Pennsylvania avenue to gate set on north line of Broadway.	6"	405			6"	2			6"	1								
Indiana avenue	Hydrant.	6"	8							6"	1								
Leonard street	Main pipe; from connection with main pipe in Walker street to gate set on south line of Powder house boulevard.	6"	226			6"	1												
Leonard street	Hydrant.	6"	7							6"	1								
Leonard street	Blow-off.	4"	5			4"	1							4"	1				
Leonard street	Main pipe; from connection with Leonard street main at Walker street laid in March, 1913, to connection with main pipe in Broadway.	6"	270			6"	1												
Loring street	Main pipe; from connection with main in Loring street at point 6' south from south line of Osgood street to connection with main pipe in Osgood street.	6"	33			6"	1												
	Hydrant.	6"	7							6"	1								
Madison street	Main pipe; from connection with main pipe in Mason street, opposite Whitman street to point 115' north from north line of Broadway.	10"	49																
Mason street	Main pipe; from connection with pipe laid earlier in year at point 115' north from north line of Broadway to gate set on north line of Broadway.	10"	115			10"	1			6"	1								
Mason street	Hydrant.	6"	6							6"	1								
Medford street	Hydrant.	8"	5									8	1						
Medford street	Hydrant 55' north from Ward street.					8"	1			8"	1								
Medford street	Hydrant 18' north from south line (extended) of Ward street.																		1
Medford street	Water post 35' east from Ward street.																		
Medford street	Water post 20' north from South street.																		
Michigan avenue	Main pipe; from connection with main in Michigan avenue at north line of Broadway laid in 1912, to connection with main in Pennsylvania avenue.	10"	494			10"	1												
Minnesota avenue	Hydrant.	6"	8							6"	1								
	Main pipe; from connection with main pipe in Minnesota avenue at gate set in 1912, on north line of Broadway to point 102' north from north line of Broadway.	6"	102																
Osgood street	Main pipe; from connection with main pipe in Granite street to point 129' east from east line of Granite street.	6"	157			6"	1												
Osgood street	Blow-off.	4"	4	4"	4	4"	1	4	1					4	1	4	1		
Osgood street	Hydrants.	6"	12							6"	1								
Osgood street	Main pipe; from connection with main pipe in Loring street to point 33' 6" east from west line of Loring street.	6"	21																
Osgood street	Hydrant.	6"	7							6"	1								
Powder house blvd. (north side)	Main pipe; from connection with main pipe laid in 1904 at point 473' west from west line of Curtis street to connection with pipe laid in 1912 at point 610' east from east line of North street completing the line on north side of boulevard between Curtis street and North street.	12"	271																
Powder house blvd. (south side)	Main pipe; from connection with main pipe in Powder House boulevard laid in 1906, at point 133' west from west line of Dow street to connection with main in North street.	10"	633			10"	2			6"	1								
	Hydrant.	6"	2																
Russell road	Main pipe; from connection with main pipe in Hamilton road to connection with Main in Russell road at point 24' south from south line of Hamilton road.	8"	37			8"	1												
School street	Water post; 188' north from Highland avenue.																		
Taylor street	Main pipe; from connection with main pipe laid in 1912 in Taylor street at point 102' south from south line of Mystic avenue to connection with main pipe in Sydney street.	6"	237			6"	1							4"	1				
Tufts street	Blow-off.	4"	9			4"	1												
Vermont avenue	Water post; 114' east from Cross street.																		
	Main pipe; from connection with main pipe in Vermont avenue, laid in 1912, at point 51' north from north line of Pennsylvania avenue to connection with main pipe in Vermont avenue at gate set in 1912, on south line of Mystic avenue.	10"	387							6"	1								
	Hydrant.	6"	7																
	Blow-off.	4"	4			4"	1							4"	1				
Vermont avenue	Main pipe; from connection with Walker street main at gate on east side of Leonard street to connection with main in Leonard street.	8"	13																
Walker street	Main pipe; from connection with main pipe in Bailey street to point 279' north from north line of Bailey street.	6"	306			6"	1			6"	1								
West Quincy street	Hydrant.	6"	7																
	Blow-off.	4"	12			4"	1							4"	1				
			6,909		4		34		1		17		1		5		1	1	5



Powder House boulevard (south side) 10-inch gate, set 17 feet out from south line of Powder House boulevard, 159 feet west from west line of Dow street.

Russell road, 8-inch gate, set 13 feet 4 inches out from west line of Russell road, on south line of Hamilton road.

Taylor street, 6-inch gate, set 13 feet 4 inches out from west line, on north line of Sydney street.

Tufts street, 4-inch gate, set 20 feet east from west line of Tufts street, and 34 feet north from north line of Washington street; on blow-off branch.

Vermont avenue, 4-inch gate, set 16 feet out from west line of Vermont avenue, 4 feet south from south line of Mystic avenue; on blow-off branch.

West Quincy street, 4-inch gate, set 18 feet 6 inches out from east line and 280 feet north from north line of Bailey street; on blow-off branch.

West Quincy street, 6-inch gate, set 13 feet 4 inches out from east line, on north line of Bailey street.

Gates Removed or Discontinued.

Osgood street, 4-inch gate discontinued from 13 feet east from west line of Granite street, and 23 feet north from south line of Osgood street.

GATES—RECAPITULATION.

GATES.	2"	4"	6"	8"	10"	12"	14"	16"	20"	Total.
Set	1	6	14	9	4	—	—	—	—	34
Removed or Discontinued	—	1	—	—	—	—	—	—	—	1

Net increase in number of gates in 1913 33

Total number of gates in the city December 31, 1913 1,599

FIRE HYDRANTS.

Construction—Renewal—Removal.

Barton street, 6-inch Walker hydrant, set 130 feet north from Broadway.

Barton street, 6-inch Walker hydrant, set 8 feet south from Russell road.

Broadway, 6-inch Chapman compression hydrant, set 80 feet east from Wisconsin avenue.

Broadway, 6-inch Chapman compression hydrant, set 118 feet east from Cross street.

Broadway, 6-inch Walker hydrant, set 9 feet west from Winter Hill circle.

Burnham street, 6-inch Walker hydrant, set 84 feet south from Powder-House boulevard.

Central Hill Municipal Buildings, 6-inch Corey hydrant, set 9 feet west from east line of City Hall and 19 feet north from north line of City Hall.

Chandler street, 6-inch Corey hydrant, set 206 feet north from Park avenue.

Chandler street, 6-inch Chapman gate hydrant, removed from 206 feet north from Park avenue.

Clarendon avenue, 6-inch Walker hydrant, set opposite No. 66.

Clarendon avenue, 4-inch Bigelow hydrant, removed from opposite No. 66.

Clark street, 6-inch Mathews hydrant, set 412 feet west from Newton street.

- Clark street, 6-inch Corey hydrant, removed from 412 feet west from Newton street.
- Curtis avenue, 6-inch Mathews hydrant, set 160 feet east from Hillsdale road.
- Curtis street, 4-inch Boston Machine hydrant, set 145 feet north from Sunset road.
- Dane street, 6-inch Pratt & Cady hydrant, set 42 feet north from Skehan street.
- Dane street, 6-inch Pratt & Cady hydrant, removed from 55 feet north from Skehan street.
- Dane street, 6-inch Walker hydrant, set 8 feet south from Tyler street.
- Dane street, 6-inch Holyoke gate hydrant, removed from 9 feet north from Tyler street.
- Dane street, 6-inch Mathews hydrant, set 166 feet south from Somerville avenue.
- Earle street, 6-inch Walker hydrant, set 66 feet north from Ward street.
- Hamilton road, 6-inch Corey hydrant, set 81 feet west from Russell road.
- Hinckley street, 6-inch Mathews hydrant, set 12 feet south from Richardson street.
- Hinckley street, 6-inch Holyoke gate hydrant, removed from 12 feet south from Richardson street.
- Illinois avenue, 6-inch Walker hydrant, set 221 feet north from Broadway.
- Indiana avenue, 6-inch Walker hydrant, set 178 feet north from Broadway.
- Leonard street, 6-inch Mathews hydrant, set 26 feet north from Walker street.
- Lowell street, 6-inch Walker hydrant, set 313 feet north from Somerville avenue.
- Madison street, 6-inch Mathews hydrant, set 43 feet east from Sycamore street.
- Mason street, 6-inch Corey hydrant, set 69 feet north from Broadway.
- Medford street, 6-inch Chapman hydrant, set 172 feet south from Somerville avenue.
- Medford street, 6-inch Chapman hydrant, removed from 382 feet south from Somerville avenue.
- Medford street, 6-inch Chapman hydrant, removed from 220 feet north from Ward street.
- Medford street, 8-inch Holyoke gate hydrant, set 18 feet north from south line (extended) of Ward street.
- Michigan avenue, 6-inch Walker hydrant, set 258 feet north from Broadway.
- Moore street, 6-inch Mathews hydrant, set 22 feet south from Holland street.
- Moore street, 4-inch Boston Machine hydrant, removed from 22 feet south from Holland street.
- Myrtle street, 6-inch Mathews hydrant, set 74 feet south from Pearl street.
- Myrtle street, 6-inch Holyoke gate hydrant, removed from 74 feet south from Pearl street.
- Osgood street, 6-inch Mathews hydrant, set 19 feet east from Loring street.
- Osgood street, 6-inch Mathews hydrant, set 38 feet east from Granite street.
- Pennsylvania avenue, 6-inch Corey hydrant, set 258 feet north from Broadway.
- Pennsylvania avenue, 6-inch Mathews hydrant, set 36 feet west from New Hampshire avenue.
- Poplar street, 6-inch Walker hydrant, set 21 feet west from Joy street.
- Poplar street, 6-inch Holyoke gate hydrant, removed from 21 feet west from Joy street.

Porter street, 6-inch Mathews hydrant, set 8 feet north from Parker place.

Porter street, 6-inch Chapman hydrant, removed from 8 feet north from Parker place.

Powder House boulevard, 6-inch Chapman compression hydrant, set 50 feet east from North street.

Powder House boulevard, 6-inch Chapman hydrant, set 336 feet east from North street.

Powder House Boulevard, 6-inch Chapman compression hydrant, set 597 feet east from North street.

Prescott street, 6-inch Mathews hydrant, set 330 feet south from Highland avenue.

Prescott street, 6-inch Holyoke compression hydrant, removed from 330 feet south from Highland avenue.

Rhode Island avenue, 6-inch Corey hydrant, set 63 feet south from Mystic avenue.

Rhode Island avenue, 6-inch Corey hydrant, set 80 feet north from Pennsylvania avenue.

School street, 6-inch Walker hydrant, set 6 feet south from Montrose street.

School street, 6-inch Chapman hydrant, removed from 6 feet south from Montrose street.

Sunset road, 6-inch Walker hydrant, set 238 feet west from Curtis street.

Sunset road, 6-inch Walker hydrant, set 119 feet east from Hillsdale road.

Thorndike street, 6-inch Walker hydrant, set 82 feet north from Kingston street.

Thorndike street, 6-inch Chapman hydrant, removed from 82 feet north from Kingston street.

Vermont avenue, 6-inch Walker hydrant, set 236 feet south from Mystic avenue.

Walker street, 6-inch Walker hydrant, set 150 feet north from Broadway.

Walker street, 6-inch Walker hydrant, set 212 feet east from Leonard street.

Washington street, 6-inch Mathews hydrant, set 45 feet east from Beacon street.

Washington street, 6-inch Holyoke gate hydrant, removed from 45 feet east from Beacon street.

Washington street, 6-inch Mathews hydrant, set 243 feet east from Parker street.

Washington street, 4-inch Boston Machine hydrant, removed from 243 feet east from Parker street.

West Quincy street, 6-inch Walker hydrant, set 88 feet north from Bailey street.

Winter Hill circle, 4-inch Holyoke gate hydrant, removed from 178 feet north from Broadway.

Wisconsin avenue, 6-inch Corey hydrant, set 210 feet south from Pennsylvania avenue.

HYDRANTS—RECAPITULATION.

HYDRANTS.	4"	6"	8"	Total.
Set	1	15	1	17
Removed	—	—	1	1

Net increase in number of hydrants in 1913 16

Total number of hydrants in the city December 31, 1913 . . . 1,115

Locations of Hydrants.

- Aberdeen road, 237 feet west from Cedar street.
Acadia park, 186 feet north from Somerville avenue.
Adams street, 11 feet south from Broadway.
221 feet south from Broadway.
250 feet north from Medford street.
10 feet north from Medford street.
Adrian street, 93 feet east from Marion street.
220 feet south from Joseph street.
Albion street, 396 feet west from Central street.
15 feet west from Centre street.
217 feet east from Lowell street.
7 feet west from house No. 110.
444 feet east from Cedar street.
Aldersey street, 276 feet west from Walnut street.
Allen street, 9 feet north from Charlestown street.
45 feet west from Somerville avenue.
323 feet west from Somerville avenue.
Alpine street, 280 feet east from Cedar street.
76 feet west from Princeton street.
298 feet west from Lowell street.
Alston street, 212 feet east from Cross street.
10 feet west from Shawmut place.
Ames street, 123 feet west from Central street.
Appleton street, 3 feet east from Clifton street.
41 feet west from Willow avenue.
Arlington street, 36 feet east from Hathorn street.
Arthur street, 29 feet south from Broadway.
Ash avenue, 300 feet north from Meacham street.
Ashland street, 7 feet south from Summer street.
268 feet south from Summer street.
Atherton street, 31 feet east from Spring street.
Auburn avenue, 239 feet west from Cross street.
481 feet west from Cross street.
Austin street, 81 feet south from Mystic avenue.
66 feet north from Benedict street.
2 feet north from Broadway.
Avon street, 233 feet east from Central street.
572 feet west from School street.
270 feet west from School street.
Banks street, 310 feet south from Summer street.
Bartlett street, 230 feet south from Broadway.
223 feet north from Medford street.
15 feet south from Ames street.
10 feet south from Robinson street.
Barton street, 130 feet north from Broadway.
8 feet south from Russell road.
Bay State avenue, 39 feet south from Broadway.
7 feet south from Mallet street.
92 feet north from Kidder avenue.
Beacon street, 316 feet west from Greenwood terrace.
10 feet east from Stanford terrace.
46 feet west from Sacramento street.
40 feet east from Sacramento street.
2 feet west from Beckwith circle.
15 feet west from Kent street.
4 feet west from Ivaloo street.
68 feet east from Park street.
18 feet east from Durham street.
26 feet east from Washington street.

- Beacon street, 79 feet west from Calvin street.
8 feet west from Waldo avenue.
28 feet west from Buckingham street.
208 feet east from Buckingham street.
6 feet east from Concord avenue.
- Beech street, 4 feet south from Atherton street.
- Belknap street, 63 feet north from Broadway.
80 feet south from Russell road.
- Belmont street, 206 feet north from Spring Hill terrace.
241 feet north from Summer street.
243 feet south from Summer street.
10 feet north from Belmont place.
222 feet south from Belmont place.
185 feet north from Somerville avenue.
- Benedict street, 33 feet east from Mystic street.
- Bennett street, 166 feet east from Prospect street.
- Benton road, 2 feet north from Cambria street.
28 feet south from Highland avenue.
- Berkeley street, 8 feet east from Central street.
150 feet east from Hersey street.
28 feet west from School street.
212 feet west from Hersey street.
- Billingham street, 126 feet north from William street.
- Blakeley avenue, 13 feet east from Fellsway East.
- Bolton street, 203 feet north from Houghton street.
3 feet south from Oak street.
- Bonair street, 26 feet west from Cross street.
90 feet east from Autumn street.
121 feet east from Arthur street.
67 feet east from Dana street.
Opposite Melvin street.
117 feet east from Walnut street.
- Bond street, 63 feet south from Jaques street.
- Bonner avenue, 171 feet north from Washington street.
- Boston avenue, 110 feet south from bridge over Mystic river.
492 feet north from Gove street, Medford.
65 feet north from Highland road.
23 feet east from Pearson avenue.
289 feet north from Morrison avenue.
- Boston street, 11 feet west from Prospect Hill avenue.
207 feet west from Bigelow street.
87 feet east from Bigelow street.
6 feet north from Munroe street.
- Bow street, 102 feet north from Warren avenue.
23 feet west from Wesley park.
25 feet east from Bow-street place.
74 feet north from Walnut street.
- Bow-street place, 193 feet west from Bow street.
- Bowdoin street, 65 feet north from Fremont avenue.
- Bradley street, 26 feet south from Radcliffe road.
- Brastow avenue, 202 feet east from Porter street.
115 feet west from Lowell street.
- Broadway, 50 feet east from Mt. Pleasant street.
20 feet west from George street.
21 feet west from Broadway place.
83 feet east from Cutter street.
7 feet east from Glen street.
80 feet east from Wisconsin avenue.

- Broadway, 21 feet east from Rush street.
118 feet east from Cross street.
15 feet west from Cross street.
7 feet west from Autumn street.
6 feet west from Montgomery avenue.
33 feet west from Walnut street.
4 feet east from Sargent avenue.
3 feet west from Melvin street.
157 feet west from Grant street.
117 feet east from Marshall street.
62 feet west from Marshall street.
4 feet west from School street.
9 feet west from Winter Hill circle.
10 feet west from Thurston street.
209 feet east from Central street.
104 feet west from Norwood avenue.
15 feet west from City road.
288 feet east from Cedar street.
Opposite Cedar street.
5 feet east from Wilson avenue.
252 feet west from Wilson avenue.
115 feet west from Rogers avenue.
236 feet west from Liberty avenue.
175 feet west from College avenue.
6 feet west from Billingham street.
9 feet west from Packard avenue.
32 feet east from Westminster street.
237 feet east from Endicott avenue.
6 feet west from Endicott avenue.
9 feet west from Garrison avenue.
330 feet west from Waterhouse street.
- Broadway park, near the pond.
- Bromfield road, 179 feet north from Warner street.
567 feet north from Warner street.
267 feet south from Dearborn road.
- Brook street, 18 feet west from Rush street.
- Browning road, 302 feet west from Sycamore street.
136 feet east from Central street.
- Buckingham street, 2 feet south from Dimick street.
- Burnham street, 84 feet south from Powder House boulevard.
- Burnside avenue, 259 feet north from Elm street.
120 feet south from Summer street.
- Calvin street, 186 feet south from Beacon street.
- Cambria street, 131 feet west from Central street.
- Cameron avenue, 166 feet south from Holland street.
Opposite Mead street.
26 feet south from Glendale avenue.
- Campbell park, 258 feet west from Meacham road.
- Cedar street, 226 feet south from Sartwell avenue.
98 feet north from Sartwell avenue.
61 feet north from Hall street.
22 feet south from Highland avenue.
12 feet north from Highland avenue.
10 feet north from Albion street.
124 feet south from Warwick street.
50 feet north from Clyde street.
24 feet south from Murdock street.
270 feet south from Broadway.
- Central Hill road, rear of City Hall.

- Central street, 50 feet south from Broadway.
 6 feet north from Forster street.
 27 feet north from Vernon street.
 5 feet north from Pembroke street.
 187 feet south from Vernon street.
 9 feet north from Willoughby street.
 92 feet north from Highland avenue.
 9 feet south from Highland avenue.
 6 feet north from Oxford street.
 23 feet south from Avon street.
 14 feet south from Summer street.
- Chandler street, 16 feet south from Broadway.
 206 feet north from Park avenue.
- Chapel street, 14 feet east from Chandler street.
- Charles street, 183 feet south from Washington street.
- Charnwood road, 79 feet west from Hancock street.
- Cherry street, 7 feet south from Sartwell avenue.
 254 feet north from Sartwell avenue.
 252 feet north from Summer street.
 26 feet south from Highland avenue.
- Chester street, 15 feet north from Chester place.
- Chestnut street, 480 feet south from Poplar street.
 246 feet south from Poplar street.
- Chetwynd road, 236 feet west from Curtis street.
- Church street, 9 feet south from Summer street.
 300 feet south from Summer street.
 16 feet south from Somerville avenue.
 29 feet north from Somerville avenue.
 12 feet north from Lake street.
- City Road, 70 feet north from Sumner street.
 67 feet south from Roberts street.
- Claremon street, 255 feet south from Holland street.
- Clarendon avenue, 253 feet south from Broadway.
 Opposite house No. 66.
 Near Cambridge line.
- Clark street, 15 feet north from Newton street.
 200 feet north from Newton street.
 412 feet north from Newton street.
- Cleveland street, 192 feet west from Central street.
- Clyde street, 250 feet east from Cedar street.
 Opposite Murdock street.
- College avenue, 12 feet north from Winter street.
 6 feet south from Morrison avenue.
 8 feet south from Hall avenue.
 53 feet west from Francesca avenue.
 Opposite Kenwood street.
 100 feet west from Broadway.
 405 feet north from Broadway.
 720 feet north from Broadway.
- Columbia street, 3 feet south from Beach avenue.
 8 feet south from Columbia court.
- Columbus avenue, 7 feet north from Washington street.
 150 feet east from Bonner avenue.
 118 feet west from Bonner avenue.
 35 feet west from Stone avenue.
 8 feet east from Walnut street.
- Concord avenue, 154 feet west from Prospect street.
 76 feet east from Concord square.
 On east line of Knapp school.
 313 feet east from Springfield street.

- Concord avenue, 24 feet east from Springfield street.
 7 feet east from Marion street.
 6 feet south from Hammond street.
 20 feet east from Wyatt street.
- Conlon-court extension, 138 feet west from Windsor street.
- Conwell avenue, 20 feet west from Curtis street.
 460 feet west from Curtis street.
 29 feet west from Hillsdale road.
 9 feet east from North street.
 336 feet east from North street.
- Conwell street, 6 feet south from Highland avenue.
 3 feet north from Francis street.
- Cooney street, 98 feet north from Line street.
- Cottage avenue, 206 feet west from Russell street.
- Craigie street, 216 feet south from Summer street.
 232 feet north from Kimball street.
 77 feet south from Kimball street.
 126 feet north from Somerville avenue.
- Crescent street, 125 feet south from Pearl street.
- Crocker street, 4 feet south from Highland avenue.
 8 feet north from Crown street.
- Cross street, 32 feet north from Cross-street place.
 6 feet north from Pearl street.
 62 feet north from Flint street.
 16 feet north from Gilman street.
 13 feet south from Auburn avenue.
 39 feet north from Alston street.
- Cross street east, 114 feet north from Broadway.
- Curtis avenue, 206 feet west from Curtis street.
 160 feet east from Hillsdale road.
- Curtis street, 6 feet north from Broadway.
 3 feet south from Electric avenue.
 137 feet north from Ware street.
 3 feet south from Raymond avenue.
 34 feet south from Professors row.
 225 feet north from Professors row.
 145 feet north from Sunset road.
- Cutter avenue, 11 feet south from Highland avenue.
- Cutter square, 95 feet west from Cutter avenue.
- Cutter street, 95 feet south from Broadway.
 444 feet south from Broadway.
- Cypress street, 114 feet west from Central street.
- Dana street, 18 feet north from Pearl street.
- Dane avenue, 162 feet west from Leland street.
 169 feet east from Dane street.
- Dane street, 166 feet south from Somerville avenue.
 8 feet south from Tyler street.
 42 feet north from Skehan street.
 260 feet south from Skehan street.
- Dartmouth street, 184 feet south from Broadway.
 200 feet north from Evergreen avenue.
 53 feet south from Evergreen avenue.
 171 feet north from Medford street.
- Davis square, 45 feet east from Day street.
- Day street, 10 feet south from Davis square.
 Opposite Herbert street.
 195 feet south from Herbert street.
 4 feet north from Orchard street.
- Delaware street, 246 feet east from Aldrich street.
 8 feet south from Pearl street.

Dell street, 255 feet west from Glen street.
Derby street, 400 feet east from Temple street.
Dickinson street, 20 feet east from Beacon street.
7 feet north from Leon street.
Dickson street, 119 feet south from Fairmount avenue.
Dover street, 22 feet south from Davis square.
203 feet south from Davis square.
Durant street, 130 feet south from Washington street.
Francesca avenue, 305 feet east from College avenue.
7 feet west from Liberty avenue.
Franklin street, 14 feet north from Arlington street.
55 feet north from Perkins street.
76 feet south from Webster street.
156 feet south from Pearl street.
80 feet south from Oliver street.
87 feet south from Palmer avenue.
29 feet north from Washington street.
Fremont street, 82 feet north from Main street.
343 feet north from Main street.
Opposite Meacham street.
287 feet north from Meacham street.
25 feet north from East Albion street.
Garden court, 357 feet south from Somerville avenue.
Garfield avenue, 7 feet north from Broadway.
24 feet south from Mystic avenue.
Garrison avenue, 235 feet south from Broadway.
Gibbens street, 202 feet west from Central street.
129 feet west from Benton road.
Gilman square, opposite Marshall street.
Gilman street, 103 feet east from Walnut street.
143 feet east from Jasper street.
8 feet west from Aldrich street.
176 feet east from Aldrich street.
295 feet west from Cross street.
Glass-house court, 360 feet west from Water street.
Glen street, 147 feet south from Broadway.
8 feet north from Brook street.
6 feet north from Webster street.
1 foot north from Flint street.
11 feet north from Fountain avenue.
Glendale avenue, 80 feet west from Cameron avenue.
8 feet east from Yorktown street.
Glenwood road, 224 feet south from Broadway.
16 feet north from Vernon street.
320 feet north from Vernon street.
467 feet north from Vernon street.
Gorham street, 310 feet south from Holland street.
67 feet north from Howard street.
Grand View avenue, 286 feet east from Vinal avenue.
Granite street, 178 feet north from Somerville avenue.
Grant street, 99 feet south from Mystic avenue.
2 feet north from Derby street.
Greene street, 295 feet south from Summer street.
Greenville street, 148 feet north from Boston street.
33 feet north from Munroe street.
Grove street, 163 feet south from Highland avenue.
Hall avenue, 310 feet east from College avenue.
306 feet west from Liberty avenue.
9 feet west from Liberty avenue.
Hall street, 269 feet west from Cedar street.
Hamilton road, 81 feet west from Russell road.

- Hamlet street, 321 feet south from Highland avenue.
Hammond street, 30 feet west from Dickinson street.
Hancock street, 258 feet south from Summer street.
Hanson street, 12 feet south from Village street.
 9 feet south from Nevada avenue.
 6 feet south from Skehan street.
Harold street, 42 feet north from Dimick street.
Harrison street, 77 feet east from Kent street.
Harrison street (Ward 7), 4 feet east from Elmwood street.
Harvard street, 13 feet north from Atherton street.
 23 feet north from Harvard place.
Hathorn street, 145 feet south from Broadway.
Hawkins street, 50 feet north from Lake street.
Hawthorne street, 8 feet east from Cutter avenue.
 209 feet east from West street.
Heath street, 3 feet west from Temple street.
 308 feet west from Langmaid avenue.
 100 feet west from Bond street.
 4 feet east from Fenwick street.
 5 feet east from Moreland street.
Henderson street, 107 feet north from Wilton street.
Herbert street, 163 feet west from Chester street.
Highland avenue, 28 feet west from Hamlet street.
 5 feet east from Walnut street.
 262 feet west from Walnut street.
 80 feet east from Vinal avenue.
 41 feet west from Putnam street.
 75 feet west from Prescott street.
 114 feet west from School street.
 410 feet west from School street.
 112 feet west from Trull lane.
 171 feet east from Central street.
 214 feet east from Spring Hill terrace.
 23 feet west from Spring Hill terrace.
 20 feet west from Belmont street.
 4 feet east from Tower street.
 2 feet east from Porter street.
 212 feet east from Cedar street.
 63 feet east from Cherry street.
 35 feet east from Hancock street.
 4 feet west from Hancock street.
 44 feet east from Willow avenue.
 3 feet west from Willow avenue.
 59 feet east from West street.
 36 feet west from West street.
 36 feet east from Grove street.
 6 feet west from Grove street.
 218 feet west from Grove street.
 64 feet east from Davis square.
Highland road, 264 feet north from Morrison avenue.
 83 feet south from Frederick avenue.
 175 feet north from Frederick avenue.
 221 feet south from Boston avenue.
Hinckley street, 12 feet south from Richardson street.
 106 feet south from Broadway.
Holland street, 39 feet north from Dover street.
 193 feet south from Winter street.
 136 feet south from Buena Vista road.
 5 feet south from Jay street.
 3 feet south from Paulina street.
 94 feet south from Claremon street.

Holyoke road (E.), 167 feet south from Elm street.
Holyoke road (W.), 185 feet south from Elm street.
Homer square, 200 feet west from Bonner avenue.
Houghton street, 82 feet west from Prospect street.

3 feet west from Bolton street.

10 feet west from Oak street.

Howard street, 36 feet west from Thorndike street.

Howe street, 162 feet east from School street.

Hudson street, 12 feet east from Waldo street.

Opposite Benton road.

294 feet east from Lowell street.

10 feet west from Lowell street.

362 feet west from Lowell street.

675 feet west from Lowell street.

364 feet east from Cedar street.

24 feet east from Cedar street.

Ibbetson street, 256 feet north from Somerville avenue.

6 feet south from Kimball street.

Illinois avenue, 221 feet north from Broadway.

Indiana avenue, 178 feet north from Broadway.

Irving street, 6 feet south from Broadway.

285 feet south from Broadway.

542 feet north from Holland street.

190 feet north from Holland street.

James street, 100 feet north from Pearl street.

Jaques street, 10 feet west from Fellsway West.

8 feet west from Grant street.

360 feet east from Temple street.

185 feet west from Temple street.

410 feet east from Bond street.

Jasper street, 5 feet south from Virginia street.

Jay street, 82 feet north from Howard street.

Joseph street, 100 feet west from Adrian street.

Josephine avenue, 397 feet north from Morrison avenue.

90 feet south from Frederick avenue.

129 feet north from Frederick avenue.

425 feet north from Frederick avenue.

213 feet south from Broadway.

Joy street, 34 feet south from Washington street.

502 feet south from Washington street.

271 feet north from Poplar street.

Kenneson road, 12 feet south from Broadway.

Kensington avenue, 6 feet north from Broadway.

316 feet north from Broadway.

Kent court, 205 feet west from Kent street.

Kent street, 38 feet south from Somerville avenue.

7 feet north from Kent court.

Kidder avenue, 346 feet east from College avenue.

Kilby street, 174 feet south from Somerville avenue.

Kingman road, 282 feet south from Washington street.

Kingston street, 95 feet west from Thorndike street.

Knowlton street, opposite Morton street.

Lake street, 220 feet west from Hawkins street.

4 feet east from Carlton street.

Langmaid avenue, 2 feet north from Broadway.

Laurel street, 50 feet north from Greene street.

8 feet north from Park place.

Leland street, 14 feet south from Dane avenue.

Leonard street, 26 feet north from Walker street.

Lesley avenue, 57 feet north from Highland avenue.

- Lexington avenue, 244 feet west from Cedar street.
200 feet east from Hancock street.
3 feet west from Hancock street.
4 feet east from Henry avenue.
- Liberty avenue, 3 feet north from Kidder avenue.
207 feet south from Mallet street.
12 feet north from Mallet street.
13 feet south from Broadway.
- Lincoln avenue, 206 feet west from Mt. Vernon street.
- Lincoln parkway, 150 feet west from Joseph street.
290 feet east from Wyatt street.
- Lincoln street, 38 feet south from Broadway.
174 feet north from Perkins street.
- Linden avenue, 118 feet south from Gilson terrace.
255 feet south from Olive avenue.
30 feet north from Olive avenue.
- Linden street, 31 feet north from Charlestown street.
237 feet south from Somerville avenue.
- Line street, 100 feet north from Smith avenue.
272 feet north from Cooney street.
100 feet south from Cooney street.
400 feet south from Cooney street.
- Linwood street, 385 feet south from Washington street.
12 feet north from Linwood terrace.
48 feet south from Lamson court.
125 feet north from London street.
52 feet south from London street.
2 feet south from Linwood place.
- London street, 383 feet east from Linwood street.
- Loring street, 276 feet north from Somerville avenue.
- Lovell street, 41 feet south from Electric avenue.
- Lowden avenue, 85 feet south from Broadway.
8 feet south from Mallet street.
178 feet north from Kidder avenue.
27 feet south from Kidder avenue.
- Lowell street, 1 foot north from Fisk avenue.
50 feet north from Richardson street.
183 feet south from Richardson street.
124 feet south from Wilton street.
Opposite Vernon street.
8 feet north from Albion street.
163 feet south from Highland avenue.
53 feet north from Crown street.
351 feet south from Summer street.
16 feet north from Kimball street.
313 feet north from Somerville avenue
- Madison street, 103 feet west from School street.
467 feet west from School street.
43 feet east from Sycamore street.
- Main street, junction with Broadway.
112 feet west from Edgar avenue.
5 feet west from Moreland street.
- Malloy court, 16 feet south from Somerville avenue.
- Malvern avenue, 146 feet west from Cameron avenue.
7 feet east from Yorktown street.
- Mansfield street, 190 feet north from Somerville avenue.
189 feet south from Washington street.
- Maple avenue, 294 feet east from School street.
- Maple street, 7 feet south from Jackson street.
87 feet north from Poplar street.

- Marion street, 31 feet south from Adrian street.
74 feet north from Wyatt street.
177 feet south from Wyatt street.
40 feet east from Dimick street.
- Marshall street, 80 feet south from Stickney avenue.
30 feet north from Stickney avenue.
Opposite Howe street.
5 feet north from Evergreen avenue.
104 feet south from Mortimer place.
109 feet north from Oakland avenue.
- Mason street, 69 feet north from Broadway.
- Meacham road, 4 feet north from Orchard street.
97 feet north from Kingston street.
326 feet east from Lester terrace.
- Meacham street, 14 feet west from Moreland street.
- Mead street, 43 feet east from Claremon street.
- Medford street, 50 feet north from Hennessey court.
56 feet north from Lowell street.
14 feet north from Glenwood road.
16 feet south from Bartlett street.
6 feet north from Central street.
19 feet south from Sycamore street.
15 feet south from Lee street.
46 feet south from Thurston street.
5 feet north from School street.
171 feet north from Marshall street.
266 feet north from Walnut street.
3 feet east from Walnut street.
291 feet south from Walnut street.
8 feet south from Greenville street.
13 feet north from Prospect Hill avenue.
240 feet south from Prospect Hill avenue.
Opposite Chester avenue.
216 feet south from Washington street.
69 feet north from Maple street.
21 feet north from Somerville avenue.
172 feet south from Somerville avenue.
18 feet north from south line of Ward street.
91 feet south from Ward street.
46 feet south from South street.
17 feet south from Warren street.
220 feet south from Warren street.
- Melrose street, 610 feet north from Mystic avenue.
- Merriam street, 160 feet south from Washington street.
25 feet north from Charlestown street.
- Michigan avenue, 258 feet north from Broadway.
- Miller street, 300 feet west from Sacramento street.
- Miner street, 137 feet north from Vernon street.
- Mondamin court, 272 feet west from Ivaloo street.
- Monmouth street, 7 feet west from Central street.
156 feet east from Harvard street.
- Montrose street, 10 feet east from Sycamore street.
287 feet east from Sycamore street.
259 feet west from School street.
- Moore street, 22 feet south from Holland street.
335 feet south from Holland street.
21 feet north from Mead street.
- Moreland street, 345 feet north from Meacham street.
3 feet south from East Albion street.
- Morgan street, 125 feet west from Park street.

- Morrison avenue, 124 feet west from Cedar street.
44 feet east from Pearson avenue.
124 feet east from Rogers avenue.
13 feet west from Newberne street.
183 feet west from Clifton street.
33 feet west from Grove street.
- Mossland street, 114 feet north from Somerville avenue.
- Mt. Pleasant street, 140 feet south from Broadway.
135 feet north from Perkins street.
- Mt. Vernon street, 246 feet north from Washington street.
8 feet north from Pearl street.
7 feet south from Perkins street.
- Mt. Vernon street, 11 feet south from Lincoln avenue.
5 feet south from Broadway.
- Munroe street, 203 feet east from Walnut street.
6 feet west from Bigelow street.
289 feet west from Boston street.
- Murdock street, 204 feet east from Cedar street.
610 feet east from Cedar street.
- Museum street, 174 feet west from Beacon street.
- Myrtle street, 218 feet north from Washington street.
460 feet north from Washington street.
74 feet south from Pearl street.
219 feet north from Pearl street.
- Mystic avenue, 90 feet east from Union street.
3 feet west from Union street.
438 feet east from Austin street.
115 feet east from Austin street.
11 feet west from Fellsway West.
60 feet west from Temple street.
25 feet east from Melrose street.
228 feet west from Melrose street.
800 feet east from Moreland street.
544 feet east from Moreland street.
241 feet east from Moreland street.
6 feet west from Moreland street.
125 feet west from Fremont street.
- Mystic street, 148 feet north from Benedict street.
- Nashua street, 190 feet south from Wilton street.
- Newberne street, 62 feet south from Morrison avenue
- Newbury street, 15 feet south from Holland street.
260 feet south from Holland street.
558 feet south from Holland street.
777 feet south from Holland street.
200 feet north from Cambridge line.
- Newton street, 9 feet west from Joseph street.
- Norfolk street, 27 feet south from Webster avenue.
227 feet south from Webster avenue.
- North street, 18 feet north from Broadway.
13 feet north from south line of Russell road.
453 feet north from Raymond avenue.
190 feet north from city bound No. 17.
- North Union street, 287 feet north from Mystic avenue.
- Oak street, 8 feet west from Prospect street.
315 feet north from Houghton street.
- Oakland avenue, 109 feet west from Marshall street.
- Oliver street, 191 feet east from Cross street.
15 feet east from Glen street.
7 feet west from Franklin street.

- Orchard street, 8 feet west from Russell street.
West corner Milton street.
9 feet east from Chester street.
- Osgood street, 38 feet east from Granite street.
19 feet east from Loring street.
- Ossipee road, 177 feet east from Curtis street.
139 feet west from Packard avenue.
246 feet east from Packard avenue.
44 feet west from Mason street.
- Otis street, 12 feet west from Cross street.
440 feet west from Cross street.
9 feet east from Dana street.
6 feet east from Wigglesworth street.
- Oxford street, 280 feet west from School street.
46 feet east from Trull lane.
237 feet west from Hersey street.
- Packard avenue, 164 feet south from Electric avenue.
34 feet north from Electric avenue.
35 feet south from Powder House boulevard.
- Park avenue, 83 feet west from College avenue.
10 feet west from Chandler street.
- Park street, opposite Allen court.
187 feet north from Beacon street.
69 feet south from Somerville avenue.
- Partridge avenue, 5 feet south from Broadway.
26 feet north from Medford street.
117 feet south from Medford street.
421 feet south from Medford street.
276 feet north from Vernon street.
- Paulina street, 184 feet north from Holland street.
288 feet south from Broadway.
5 feet south from Broadway.
- Pearl street, 50 feet west from Crescent street.
7 feet north from Pinckney street.
29 feet east from Franklin street.
Opposite Hillside avenue.
15 feet west from Glen street.
90 feet east from Cross street.
3 feet east from Pearl terrace.
6 feet west from Walnut street.
72 feet east from Bradley street.
110 feet east from Marshall street.
- Pearson avenue, 309 feet north from Morrison avenue.
44 feet south from Frederick avenue.
308 feet north from Frederick avenue.
- Pearson road, 127 feet north from Broadway.
81 feet north from Warner street.
344 feet north from Warner street.
436 feet south from Dearborn road.
131 feet south from Dearborn road.
- Pembroke street, 14 feet east from Tennyson street.
- Pennsylvania avenue, 258 feet north from Broadway.
36 feet west from New Hampshire avenue.
- Perkins street, opposite Myrtle street.
78 feet east from Florence street.
24 feet east from Pinckney street.
56 feet east from Perkins place.
21 feet east from Mt. Pleasant street.
- Perry street, 324 feet south from Washington street.

- Pinckney street, 11 feet north from Washington street.
330 feet south from Pearl street.
71 feet south from Pearl street.
203 feet north from Pearl street.
- Pitman street, 180 feet west from Beech street.
- Pleasant avenue, 256 feet west from Walnut street.
- Poplar street, 21 feet west from Joy street.
22 feet east from Linwood street.
- Porter street, 1 foot north from Mountain avenue.
282 feet south from Summer street.
24 feet north from Williams court.
8 feet north from Parker place.
- Powder House boulevard, 133 feet northwest from Broadway.
560 feet northwest from Broadway.
319 feet east from Packard avenue.
- Powder House boulevard, 191 feet west from Packard avenue.
172 feet east from Curtis street.
197 feet west from Curtis street.
528 feet west from Curtis street.
336 feet east from North street.
597 feet east from North street.
50 feet east from North street.
- Prescott street, 330 feet south from Highland avenue.
586 feet south from Highland avenue.
257 feet north from Summer street.
- Preston road, 269 feet west from School street.
166 feet south from Summer street.
- Prichard avenue, 255 feet north from Morrison avenue.
46 feet north from Frederick avenue.
168 feet south from Boston avenue.
- Princeton street, 175 feet west from Lowell street.
- Professors row, 39 feet east from College avenue.
158 feet west from Boston avenue.
126 feet west from College avenue.
291 feet west from College avenue.
548 feet east from Packard avenue.
156 feet east from Packard avenue.
3 feet west from Packard avenue.
296 feet west from Packard avenue.
113 feet east from Curtis street.
- Prospect street, 135 feet north from Bennett street.
7 feet west from Webster avenue.
185 feet south from Oak street.
403 feet south from Oak street.
63 feet north from Houghton street.
- Prospect Hill avenue, 10 feet north from Munroe street
- Putnam street, 116 feet south from Highland avenue.
420 feet south from Highland avenue.
612 feet north from Summer street.
308 feet north from Summer street.
46 feet north from Summer street.
- Quincy street, 91 feet north from Somerville avenue.
381 feet north from Somerville avenue.
26 feet south from Summer street.
- Radcliffe road, 1 foot west from James street.
- Raymond avenue, 728 feet west from Curtis street.
- Rhode Island avenue, 63 feet south from Mystic avenue.
80 feet north from Pennsylvania avenue.
- Richardson street, 11 feet west from Nashua street.
- Richdale avenue, opposite Thurston street.

- Robinson street, 325 feet west from Central street.
Rogers avenue, 369 feet south from Broadway.
257 feet north from Frederick avenue.
88 feet south from Frederick avenue.
255 feet north from Morrison avenue.
Rossmore street, 244 feet south from Washington street.
Rush street, 84 feet south from Pearl street.
11 feet north from Pearl street.
128 feet north from Brook street.
Russell road, 11 feet north from Broadway.
312 feet north from Broadway.
Sacramento street, 5 feet south from Miller street.
128 feet south from Beacon street.
Sanborn avenue, 55 feet east from Walnut street.
Sargent avenue, 474 feet south from Broadway.
361 feet west from Walnut street.
95 feet west from Walnut street.
Sawyer avenue, 25 feet west from Packard avenue.
School street, 31 feet south from Oakland avenue.
100 feet south from Maple avenue.
6 feet south from Montrose street.
128 feet north from Highland avenue.
88 feet north from Oxford street.
15 feet north from Avon street.
100 feet south from Summer street.
93 feet south from Preston road.
61 feet north from Knapp street.
Sewall street, 311 feet west from Grant street.
Shawmut street, 9 feet west from Washington street.
153 feet west from Shawmut place.
Simpson avenue, 272 feet south from Broadway.
142 feet north from Holland street.
Skehan street, 110 feet east from Hanson street.
Skilton avenue, on east entrance, 173 feet south from south line of Pearl street.
Somerville avenue, 96 feet west from Acadia park.
188 feet west from Mossland street.
308 feet east from Mossland street.
600 feet east from Mossland street.
116 feet west from Elm street.
9 feet east from Ibbetson street.
77 feet east from Belmont street.
14 feet west from Garden court.
133 feet west from Kent street.
13 feet west from Beech street.
11 feet east from Central street.
2 feet west from Abdell street.
15 feet west from Laurel street.
86 feet west from Granite street.
100 feet east from Granite street.
76 feet east from Hawkins street.
185 feet west from Hawkins street.
88 feet west from Quincy street.
105 feet east from Carlton street.
90 feet west from Prospect street.
28 feet west from Linden street.
9 feet east from Merriam street.
94 feet west from Mansfield street.
126 feet east from Medford street.
88 feet east from Poplar street.

Somerville avenue, 145 feet west from Congress place.

13 feet east from Congress place on north side.

313 feet east from Congress place on south side.

* 882 feet west from East Cambridge line on south side, low level, under steps.

803 feet west from East Cambridge line on south side, high level, near bridge.

670 feet west from East Cambridge line on south side, high level.

650 feet west from East Cambridge line on north side, low level.

312 feet west from East Cambridge line.

215 feet west from East Cambridge line.

100 feet west from Cambridge line.

South street, 97 feet west from Bedford street.

2 feet east from Harding street.

25 feet west from Hunting street.

80 feet west from Willow place.

Spencer avenue, 290 feet west from Cedar street.

63 feet east from Hancock street.

Spring street, 10 feet south from Pitman street.

184 feet north from Atherton street.

Spring Hill terrace, 333 feet south from Highland avenue.

Springfield street, 140 feet south from Concord avenue.

21 feet south from Dickinson street.

177 feet south from Houghton street.

Stickney avenue, 212 feet west from Marshall street.

Stone avenue, 120 feet north from Union square.

275 feet south from Columbus avenue.

Summer street, 148 feet east from Cutter avenue.

Opposite Elston street.

West corner Hancock street.

34 feet east from Banks street.

6 feet east from Cherry street.

6 feet east from Cedar street.

24 feet east from Linden avenue.

Opposite Craigie street.

35 feet east from Porter street.

4 feet east from Lowell street.

3 feet east from Belmont street.

1 foot west from Spring street.

53 feet west from Harvard street.

215 feet east from Harvard street.

59 feet east from Central street.

19 feet west from Laurel street.

52 feet west from Preston road.

191 feet west from School street.

8 feet east from School street.

Summit avenue, 231 feet east from Vinal avenue.

Sunnyside avenue, 99 feet west from Wigglesworth street.

Sunset road, 238 feet west from Curtis street.

119 feet east from Hillsdale road.

Sycamore street, 18 feet south from Broadway.

62 feet south from Browning road.

1 foot south from Forster street.

200 feet north from Medford street.

174 feet south from Medford street.

Sydney street, 418 feet east from Temple street.

Talbot avenue, 488 feet east from Packard avenue.

Taylor street, 14 feet south from Mystic avenue.

- Teele avenue, 174 feet west from Packard avenue.
201 feet east from Curtis street.
- Temple street, 4 feet north from Broadway.
123 feet south from Sewall street.
11 feet north from Jaques street.
6 feet south from Derby street.
5 feet south from Sydney street.
- Tenney court, 306 feet north from Mystic avenue.
- Tennyson street, 4 feet south from Medford street.
117 feet north from Pembroke street.
- Thorndike street, 4 feet south from Holland street.
82 feet north from Kingston street.
- Thorpe street, 269 feet south from Highland avenue.
- Thurston street, 187 feet north from Medford street.
160 feet south from Evergreen avenue.
6 feet north from Evergreen avenue.
348 feet north from Evergreen avenue.
- Tower street, 18 feet north from Crown street.
- Tremont street, 9 feet south from Webster avenue.
454 feet south from Webster avenue.
- Trull street, 3 feet south from Medford street.
276 feet south from Medford street.
522 feet north from Vernon street.
270 feet north from Vernon street.
- Tufts street, 51 feet north from Washington street.
150 feet south from Glen street.
43 feet north from Glen street.
53 feet south from Dell street.
45 feet south from Cross street.
- Tyler street, 31 feet east from Vine street.
- Union square, 267 feet east from Webster avenue.
15 feet east from Stone avenue.
3 feet west from Bow street.
Centre of square.
- Union street, 3 feet north from Broadway.
123 feet south from Mystic avenue.
- Vermont avenue, 236 feet south from Mystic avenue.
- Vernon street, 72 feet west from Partridge avenue.
1 foot east from Bartlett street.
2 feet east from Miner street.
48 feet west from Central street.
- Victoria street, 255 feet south from Broadway.
506 feet south from Broadway.
151 feet north from Woodstock street.
- Villa avenue, 121 feet south from Winslow avenue.
- Vinal avenue, 6 feet south from Highland avenue.
10 feet north from Pleasant avenue.
129 feet north from Aldersey street.
206 feet north from Summer street.
15 feet north from Summer street.
- Vine street, 15 feet north from Beacon street.
Opposite Eliot street.
121 feet south from Tyler street.
32 feet south from Somerville avenue.
- Virginia street, 45 feet west from Aldrich street.
- Waldo street, 6 feet north from Highland avenue.
- Walker street, 150 feet north from Broadway.
212 feet east from Leonard street.

- Wallace street, 37 feet south from Broadway.
395 feet south from Broadway.
483 feet north from Park avenue.
166 feet north from Park avenue.
10 feet north from Holland street.
- Walnut road, 268 feet west from Walnut street.
- Walnut street, 88 feet south from Wellington avenue.
Opposite Radcliffe road.
87 feet north from Gilman street.
31 feet north from Pleasant avenue.
12 feet south from Boston street.
- Walter street, 28 feet west from Walnut street.
50 feet west from Bradley street.
- Ward street, 104 feet west from Medford street.
7 feet east from Emery street.
- Ware street, 258 feet west from Curtis street.
638 feet west from Curtis street.
- Warner street, 60 feet north from Broadway.
- Warren avenue, 5 feet north from Sanborn avenue.
- Warren avenue, 48 feet north from Bow street.
7 feet south from Columbus avenue.
- Warwick place, 142 feet north from Warwick street.
- Warwick street, 426 feet east from Cedar street.
- Washington street, 69 feet west from Crescent street.
3 feet west from Waverley street.
West corner Mt. Vernon street.
3 feet west from Murray street.
6 feet west from Florence street.
15 feet west from Myrtle street.
2 feet east from Durant street.
18 feet east from Franklin avenue.
160 feet east from Franklin street.
58 feet west from Franklin street.
50 feet east from Shawmut street.
37 feet east from Rossmore street.
78 feet east from Boston street.
28 feet west from Mystic street.
6 feet west from Clark place.
156 feet west from Bonner avenue.
6 feet east from Kingman road.
243 feet east from Parker street.
50 feet east from Bowdoin street.
15 feet east from Perry street.
9 feet east from Leland street.
112 feet east from Dane street.
175 feet west from Dane street.
45 feet east from Beacon street.
62 feet east from Line street.
- Water street, 91 feet north from South street.
254 feet north from South street.
354 feet north from South street.
- Waterhouse street, 24 feet south from Broadway.
326 feet south from Broadway.
630 feet south from Broadway.
- Waverley street, 171 feet south from Washington street.
- Webster avenue, 37 feet south from Washington street.
190 feet south from Everett street.
167 feet north from Prospect street.
14 feet south from Prospect street.

Webster avenue, 78 feet north from Tremont street.
 3 feet north from Beach avenue.
 1 foot south from Columbia court.
 Webster street, 25 feet east from Cross street.
 9 feet east from Rush street.
 Opposite Cutter street.
 Wellington avenue, 15 feet west from Montgomery avenue
 Wesley street, 200 feet north from Pearl street.
 Wesley park, 16 feet north from Bow street.
 335 feet north from Bow street.
 West street, 92 feet south from Highland avenue.
 140 feet north from Highland avenue.
 West Adams street, 200 feet north from Conwell avenue.
 480 feet north from Conwell avenue.
 Westminster street, 156 feet south from Electric avenue.
 West Quincy street, 88 feet north from Bailey street.
 Westwood road, 90 feet west from Central street.
 58 feet east from Benton road.
 Wheatland street, 129 feet north from Broadway.
 9 feet south from Jaques street.
 73 feet north from Derby street.
 Wheatland street, 78 feet south from Mystic avenue.
 Whipple street, 101 feet north from Highland avenue.
 Whitfield road, 85 feet west from Packard avenue.
 Wigglesworth street, 14 feet north from Pearl street.
 William street, 8 feet east from Chandler street.
 Willoughby street, 146 feet west from Sycamore street.
 Willow avenue, 14 feet north from Summer street.
 3 feet north from Lexington avenue.
 46 feet south from Morrison avenue.
 42 feet south from Fosket street.
 85 feet south from Frederick avenue.
 171 feet north from Frederick avenue.
 Opposite Mallet street.
 Wilton street, 6 feet east from Nashua street.
 10 feet east from Hinckley street.
 Windom street, 7 feet south from Summer street.
 Windsor road, 86 feet east from Willow avenue.
 45 feet west from Hancock street.
 Winslow avenue, 145 feet east from College avenue.
 5 feet west from Grove street.
 224 feet east from Grove street.
 8 feet west from Clifton street.
 Winter street, 130 feet east from Holland street.
 Wisconsin avenue, 210 feet south from Pennsylvania avenue.
 Woodbine street, 222 feet west from Centre street.
 Wyatt street, 8 feet south from Taunton street.

**List of Private Hydrants Supplied from the City
of Somerville Mains.**

John P. Squire & Co.	12
North Packing and Provision Co.	10
New England Dressed Meat and Wool Co.	5
Boston & Maine Railroad	14
Union Glass Works	1
Fresh Pond Ice Co.	1
American Tube Works	2
Middlesex Bleachery	3

Boston Elevated Railway Co.	1
Metropolitan Sewerage Pumping Station	1
Middlesex Paper Co.	2
Derby Desk Co.	1
M. W. Carr & Co.	3
City of Somerville, Water Department	1
City of Somerville, Highway Department	2

Locations of Waterposts.

- 1—Albion street, 83 feet west from Centre street.
- 2—Appleton street, 49 feet west from Willow avenue.
- 3—Bartlett street, 26 feet south from Broadway.
- 4—Beacon street, 33 feet north from Concord avenue.
- 5—Beacon street, 135 feet east from Washington street.
- 6—Beacon street, 33 feet west from Vine street.
- 7—Beacon street, 94 feet east from Sacramento street.
- 8—Bolton street, opposite Baxter school.
- 9—Bonair street, 19 feet west from Wigglesworth street.
- 10—Bond street, 14 feet north from Broadway.
- 11—Boston avenue, opposite Prichard avenue.
- 12—Boston street, 107 feet west from Greenville street.
- 13—Broadway, 75 feet west from Fellsway East.
- 14—Broadway, 6 feet west from City road.
- 15—Broadway, 6 feet west from Irving street.
- 16—Broadway, 120 feet west from Clarendon avenue. In combination with drinking fountain.
- 17—Broadway, 20 feet west from North street.
- 18—Cameron avenue, 6 feet north from Glendale avenue.
- 19—Cedar street, 96 feet south from Morrison avenue.
- 20—Central street, 89 feet north from Highland avenue.
- 21—Cherry street, 161 feet south from Fairlee street.
- 22—Cleveland street, 169 feet east from Harvard street.
- 23—Columbus avenue, 54 feet east from Walnut street.
- 24—Concord avenue, opposite Knapp school.
- 25—Cross street east, 64 feet north from Broadway.
- 26—Curtis street, 50 feet east from Professors row.
- 27—Dana street, 30 feet east from Pearl street.
- 28—Francesca avenue, 50 feet east from College avenue.
- 29—Franklin street, 127 feet south from Broadway.
- 30—Frederick avenue, 66 feet east from Willow avenue.
- 31—Gilman street, 63 feet east from Walnut street.
- 32—Grove street, 19 feet south from Highland avenue.
- 33—Jaques street, 159 feet west from Grant street.
- 34—Laurel street, 20 feet south from Summer street.
- 35—Liberty avenue, 46 feet south from Broadway.
- 36—Linwood street, 70 feet west from Poplar street.
- 37—Lowell street, opposite Crown street.
- 38—Lowell street, 34 feet north from Highland avenue.
- 39—Lowell street, 102 feet north from Wilton street.
- 40—Meacham road, 39 feet west from Dover street.
- 41—Medford street, 20 feet north from South street.
- 42—Medford street, 24 feet north from Highland avenue.
- 43—Medford street, at Gilman square. In combination with drinking
- 44—Medford street, 19 feet east from Glenwood road.
- 45—Montrose street, 204 feet west from School street.
- 46—Moreland street, 28 feet north from Meacham street.
- 47—Mt. Vernon street, 71 feet south from Broadway.
- 48—Mystic avenue, 33 feet west from Union street.

- 49—Orchard street, 107 feet west from Dover street.
- 50—Otis street, 127 feet west from Cross street.
- 51—Packard avenue, 55 feet southwest from Powder House boulevard.
- 52—Paulina street, 26 feet east from Holland street.
- 53—Pearl street, 28 feet east from Myrtle street.
- 54—Pleasant avenue, 104 feet west from Walnut street.
- 55—Prospect street, 30 feet north from Somerville avenue.
- 56—Putnam street, 96 feet north from Summer street.
- 57—School street, 116 feet south from Broadway.
- 58—School street, 50 feet north from Berkeley street.
- 59—Shawmut street, 74 feet north from Shawmut place.
- 60—Somerville avenue, 871 feet west from East Cambridge line.
- 61—Somerville avenue, 150 feet west from Congress place.
- 62—Somerville avenue, 89 feet east from Mystic street.
- 63—Somerville avenue, 119 feet west from School street.
- 64—Somerville avenue, 35 feet east from Central street.
- 65—Somerville avenue, 92 feet west from Kent street.
- 66—Somerville avenue, 120 feet west from Oak square.
- 67—Somerville avenue, 42 feet east from Mossland street.
- 68—Summer street, 14 feet east from Belmont street.
- 69—Summer street, 32 feet east from Cedar street.
- 70—Summer street, 35 feet east from Cutter avenue.
- 71—Sycamore street, 28 feet west from Medford street.
- 72—Temple street, 31 feet north from Broadway.
- 73—Tremont street, 120 feet south from Webster avenue.
- 74—Vernon street, 45 feet west from Central street.
- 75—Washington street, 96 feet west from Myrtle street.
- 76—Washington street, 7 feet west from Boston street.
- 77—Washington street, 34 feet west from Union square.
- 78—Washington street, opposite Leland street.
- 79—Wheatland street, 30 feet south from Mystic avenue.

Locations of Drinking Fountains.

Broadway, opposite park, near Fellsway East .	H
Union square, junction Somerville avenue and Washington street	H
Union square, in front of Hill building	D I
Gilman square	D I
Gilman square Combination W P & H	H
Cutter square	C
Davis square, in front of Medina building	D I
Teele square Combination W P & H & D	D

H, horse trough ; D, drinking fountain ; I, ice water ; C, combination trough and drinking fountain ; W P., waterposts.

Summary of Statistics.

FOR THE YEAR ENDING DECEMBER 31, 1913.

In form recommended by the New England Water Works Association.

SOMERVILLE WATER WORKS.

SOMERVILLE, MIDDLESEX COUNTY, MASS.

GENERAL STATISTICS.

Population by census of 1910, 77,236.

Date of construction: commenced in 1868.

By whom owned: City of Somerville.

Source of supply: Metropolitan water system.

Mode of supply: Water is delivered into the city's mains, under both high and low pressures, by the Metropolitan Water Works.

STATISTICS OF CONSUMPTION OF WATER.

Estimated total population at date, 82,000.
 Estimated population on lines of pipe, 82,000.
 Estimated population supplied, 82,000.
 Total consumption for the year, 2,174,666,000 gallons.
 Average daily consumption, 5,958,000 gallons.
 Gallons per day to each inhabitant, 72.

STATISTICS RELATING TO DISTRIBUTION SYSTEM, 1913.**MAINS.**

Kind of pipe, cast-iron.
 Sizes, from 4-inch to 20-inch.
 Laid 6,909 feet; discontinued 4 feet; net extension, 6,905 feet.
 Total now in use, 98.65 miles.
 Number of leaks per mile, .9.
 Number of hydrants added during year (public, 16; private, 0), 16.
 Number of hydrants (public and private) now in use, 1,174.
 Number of stop gates added during year, 33.
 Number of stop gates now in use, 1,599.
 Number of blow-offs, 159.
 Range of pressure on mains, 35 pounds to 100 pounds.

SERVICES.

Kind of pipe: Lead: wrought iron—lead-lined; wrought iron—
 cement-lined; cast iron.
 Sizes, one-half to six inches.
 Extended less discontinued, 8,508 feet.
 Total now in use, 83.67 miles.
 Number of service taps added, 241; discontinued, 10; net increase,
 231.
 Number now in use, 12,827.
 Number of meters added, 763; discontinued, 78; net increase, 685.
 Number now in use, 7,856.
 Percentage of services metered, 61.
 Percentage of receipts from metered water, 67.
 Number of motors and elevator registers added, 0.
 Number now in use, 7 (included in number of meters).

FINANCIAL STATISTICS.

RECEIPTS.		EXPENDITURES.	
From Water Rates:—		Water Works Maintenance:—	
Fixture rates . . .	\$76,921.47	Operation (management and repairs) . . .	\$33,890.51
Meter rates . . .	155,140.30	Special:—	
Total from consumers	\$232,061.77	Miscellaneous accounts . . .	4,817.51
From other sources:—		Total maintenance . . .	\$38,708.02
Water service assessments	5,079.51	Interest on bonds . . .	1,500.00
Labor and materials . . .	4,925.77	Payment of bonds . . .	6,000.00
		Water Works Construction:—	
		Mains . . .	\$9,797.58
		Services . . .	5,634.99
		Meters . . .	4,791.87
		Special:—	
		Miscellaneous accounts . . .	108.26
		Total construction . . .	\$20,332.70
		Unclassified expenses:—	
		Pensions . . .	643.83
		Metropolitan water assessment . . .	116,320.88
		Balance:—	
		Ordinary . . .	58,561.62
		Total balance . . .	58,561.62
Total . . .	\$242,067.05	Total . . .	\$242,067.05

Disposition of balance: applied to municipal purposes.

Cost of works to date . . .	\$978,279.93
Bonded debt at date . . .	32,000.00
Average rate of interest, 4 per cent.	

REPORT OF CHIEF ENGINEER OF FIRE DEPARTMENT.

OFFICE OF FIRE DEPARTMENT, }
Somerville, Mass., December 31, 1913. }

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—I have the honor of presenting to you for your consideration the annual report of the fire department for the year ending December 31, 1913:—

Alarms of Fire.

Number of bell alarms	343
Number of still alarms	346
Total alarms	689
Number less than 1912	8
Value of buildings at risk	\$798,775 00
Insurance on buildings	565,008 80
Damage to buildings	72,568 20
Value of contents	252,050 00
Insurance on contents	133,506 00
Damage to contents	66,579 52
Total value at risk	1,050,825 00
Total insurance	698,567 80
Total damage	139,147 72

Showing Probable Causes of Fire.

Accidental	2
Automobile	6
Burning rubbish	7
Bonfires	4
Bed clothing in contact with gas	1
Children playing with matches	34
Child playing with fire	1
Clothing in contact with lamp	4
Clothing in contact with stove	8
Cigars and cigarettes	13
Combustion	10
Chimney fires	16
Dropping lighted match on floor	5
Dropping lighted candle	1
Defective gas fixture	2
Electric wires	9
Electric car	4
False alarms	34
Fire in Boston	1
Fire in Cambridge	5
Fire in Medford	1
Firecracker on roof	7
Fire in old tree	1
Fire in manure pit	1
Grass and dump fires	11
Gas explosion	1
Gas stove upset	1
Gasoline explosion from hot iron	1

Hot ashes	8
Heating japan on stove	1
Incendiary	31
Jack-o'-lantern in clothes basket	1
Lightning	1
Light in building mistaken for fire	1
Lighting matches going to cellar	4
Lantern upset in wagon in street	1
Lace curtain in contact with gaslight	2
Leaking gas in cellar	1
Lighting matches going to closet	3
Overheated oil lamps and stoves	21
Overheated coal stove	5
Overheated furnace	4
Overheated japan furnace	1
Plumber working on gas in cellar	1
Plumber's furnace	2
Painter's torch	1
Papers in gas stove oven	1
Pouring fat in stove	1
Rats and matches	4
Smoke from stove	3
Smoke from chimney	2
Smoke from bakery	1
Smoke from steam roller	1
Smoke mistaken for fire	3
Spark from furnace in ventilator	1
Spark from gas mantle on couch	1
Spark from boring machine	1
Spark on roof from chimney	5
Spark from locomotive	8
Spark from tobacco pipe	20
Spark from stove on couch	1
Tar kettle	2
Thawing water pipe	4
Unknown	3
Wood in oven	1

Service of Companies in Fire Department, Year 1913.

	Engine 1.	Engine 2.	Engine 4.	Engine 6.	Hose 2.	Hose 3.	Hose 5.	Hose 7.	Ladder 1.	Ladder 2.	Ladder 3.	*Chemical A	Totals.
Bell alarms responded to . . .	236	136	119	70	123	155	164	153	153	123	89	15	343
Still alarms responded to . . .	27	49	7	62	33	63	20	31	16	1	28	9	346
Miles traveled . . .	492	244	218	174	380	235	337	301	166	174½	123	.	2,844½
Feet of 2½ inch hose used . . .	25,000	15,350	13,900	18,800	13,650	23,300	16,950	14,950	.	.	.	.	141,900
Feet of chemical hose used . . .	.	.	.	2,700	6,100	17,400	17,350	13,350	7,200	.	.	.	64,100
Feet of ladders used . . .	.	108	227	.	.	.	315	36	3,720	3,223	3,088	.	10,717
Chemical extinguishers used . . .	5	15	13	.	20	.	17	15	15	2	13	.	115
Gallons of chemical used . . .	.	.	.	706	1910	3,045	2,970	2,525	.	.	1,438	.	12,594
Times on duty at other stations . . .	1	2	3	.	.	.	1	1	.	.	.	.	7
Times responded out of town . . .	9	14	2	29	9	16	3	.	3	.	2	.	87

*On the 27th of March the Chemical Company was merged into Engine No. 1 Company.

In Memoriam

LINDORF D. BIXBY
Engineman
Engine Co. No. 4
Appointed May 1, 1871
Died April 14, 1913.

GEORGE L. BLACKBIRD
Driver
Central Fire Station
Appointed May 1, 1885
Died June 3, 1913

Manual Force.

During the year nine (9) men have resigned, two (2) have been pensioned, and one (1) has died; four (4) permanent have been appointed, the force of the department now consisting of seventy (70) permanent and thirty (30) callmen, as follows:—

- 1 Chief engineer.
- 1 First assistant engineer.
- 1 Second assistant engineer.
- 7 Captains.
- 9 Lieutenants.
- 4 Enginemen.
- 4 Assistant enginemen.
- 43 Permanent men.
- 30 Callmen.

Apparatus.

The department apparatus consists of the following:—

- 2 Second size, horse drawn steam fire engines.
- 2 Third size horse drawn steam fire engines.
- 3 Horse drawn combination chemical engine and hose wagons.
- 2 Horse drawn hose wagons.
- 2 Horse drawn ladder trucks.
- 1 Horse drawn combination ladder truck and chemical engine.
- 2 Motor driven combination chemical and hose wagon.
- 1 Motor driven chemical engine.
- 1 Automobile Chief's car.
- 2 Four wheel buggies for assistant chiefs.
- 1 Horse drawn relief hose wagon.
- 7 Horse drawn exercising wagons.
- 1 Horse drawn supply wagon.

Horses.

There are thirty-eight (38) horses in the department, three having been disposed of and three having been purchased during the past year.

The general health of the horses has been fair although there have been some painful accidents necessitating considerable surgical and veterinary service.

The advent of motor driven apparatus will materially reduce the number of horses the coming year.

Hose.

The amount of servicable hose in the department at present is 9,700 feet of two and one-half inch rubber lined cotton hose, and 2,150 feet of three-quarter inch chemical hose.

There has been purchased 1,700 feet of new hose and 1,300 feet condemned, practically replacing old with new.

There should be at least 4,000 feet more to place the department on a safe hose footing.

Brief Resume.

The insurance loss has been unusually large as compared to previous years owing to the increased numbers of fires, par-

ticularly in merchantile establishments which contain much greater values in the same areas than are usually found in residences.

The months of January and February show fully one-half of the total loss of the entire twelve months as is shown by the following table giving the fire losses by months:—

January	.	.	.	.	.	.	.	.	.	\$57,598 70
February	.	.	.	.	.	.	.	.	.	11,842 14
March	.	.	.	.	.	.	.	.	.	3,109 15
April	.	.	.	.	.	.	.	.	.	12,516 00
May	.	.	.	.	.	.	.	.	.	10,992 39
June	.	.	.	.	.	.	.	.	.	3,329 96
July	.	.	.	.	.	.	.	.	.	4,801 00
August	.	.	.	.	.	.	.	.	.	8,836 62
September	.	.	.	.	.	.	.	.	.	9,175 06
October	.	.	.	.	.	.	.	.	.	4,708 00
November	.	.	.	.	.	.	.	.	.	4,546 00
December	.	.	.	.	.	.	.	.	.	7,693 00
										\$139,147 72

There have been twenty-two fires with an insurance loss exceeding \$1,000 as follows:—

On January 7, at 4.32 P. M. the first bell alarm of the year was sounded and the indicators in the several stations showed box 227; the apparatus responded and no fire being found, the department was dismissed, whereas box 237 had been pulled; at 4.40 P. M., box 237 was pulled again, and on arrival of the department, a brisk fire was burning in the six apartment house, 19-21 Harvard street, owned by Mrs. A. S. Hardy, and occupied by E. J. Ackroyd, Charles Perry, M. N. Phillips, William Wood, Mrs. L. Burton and Miss Grace Oliver; damage to building, \$11,821.70; to contents, \$5,750. Cause, from heater in basement. Before this fire was fully extinguished, a large part of the apparatus not having returned to quarters; box 23 was pulled at 6.55 P. M., for fire in the building corner Water and South streets, owned by John P. Squire Estate, and occupied by L. S. Drake & Co. as a rattan factory; a general alarm was sounded for this fire, the Cambridge department rendered valuable assistance at this fire. The loss on building, \$14,600.00; contents, \$15,250.00. Cause, carelessness of employee smoking.

January 17, 9.46 A. M. Box 123, 73-75 Cross street, three-story building, stores and dwelling owned by L. S. Rosenfeld, occupied by Bernard Kipnis, John T. Connor, William A. Robes, H. E. Russell, and P. E. Auclair; damage to building, \$2,500.00; to contents, \$3,614. Cause, carelessness of smoker.

February 4, 12.12 A. M. Box 32, 54 Bonair street three-story wooden dwelling owned by Scully Bros., occupied by James Field, John Hunter and H. E. Pillsbury; damage to building, \$1,884.00; to contents, \$400. Cause, rats and matches.

February 15, 8.55 P. M. Box 32, 17-19 Otis street, three-

story wooden dwelling owned by Harry Schlager, occupied by A. R. Spear. Orest Tregoli and Myrr Grodzen; damage to building, \$1,097; to contents, \$100. Cause, spark from tobacco pipe.

February 27, 2.40 A. M. Box 116 and 156, 89 Mystic avenue, wagon repair shop, owned by H. E. Wright & Son, occupied by Welch, Dwyer & Grady; damage to building, \$1,280; to contents, \$1,950. Cause, incendiary.

March 6, 9.40 A. M. Box 36, 138 Central street, garage owned and occupied by E. J. Kraetzer, adjoining dwelling 140 Central street, owned and occupied by Edgar Fernald; damage to buildings, \$285; to contents, \$1,000. Cause, oil heater in garage drying varnish.

April 25, 12.48 P. M. Box 38, second alarm 12.52 P. M., corner Cedar and Alpine streets, hay and grain sheds, owned and occupied by William J. Thompson; damage to building, \$1,904; to contents, \$1,176. Cause, incendiary.

April 27, 12.30 P. M. Box 25, general alarm sounded, 3-4 Union square, hay and grain sheds owned and occupied by Fulton O'Brien; damage to buildings, \$2,000; to contents, \$1,900; to exposed buildings, \$715. Cause, unknown, probably careless smoker.

May 13, 7.52 P. M. Box 114, general alarm sounded, 17 Poplar street, stable, barrel sheds and dwellings owned and occupied by Michael Gavin; damage to building, \$3,088; to contents, \$1,825. Cause, spark from tobacco pipe.

May 16, 8.38 P. M. Box 443, second alarm 8.45 P. M., car barns of the Boston Elevated Railway Co. on Dover street, occupied by F. A. Teele, Farnham & Mahoney. M. W. Palmer, American Wet Wash Laundry Co., and Home Laundry Co.; damage to building, \$1,000; to contents, \$3,477.56. Cause, incendiary.

July 28, 10.25 P. M. Box 37, 500 Broadway, three-story wooden dwelling and stores owned by J. A. Walker; store occupied by M. Bayard; damaged to building, \$395; to contents, \$3,125. Cause, incendiary.

August 3, 9.00 P. M. Box 24, wood sheds in Boynton's Yard, owned by L. J. Mullin; damage to buildings, \$1,350; to contents, \$1,200. Cause, defective wiring.

August 7, 9.00 A. M. Box 14, 128-A Cross street, three-story dwelling and stores owned by Charles Evans; occupied by S. Kreidberg, H. D. Wickham and J. A. Norris; damage to building, \$305; to contents, \$1,381.07. Cause, match in clothing being pressed.

September 4, 12.35 P. M., Box 326, 41 Meacham street, dwelling owned by Mrs. Sarah Checkoway, occupied by Jacob Faroloman and Samuel Bresnick; damage to building, \$835; to contents, \$250. Cause, spark from tobacco pipe.

September 14, 2.13 A. M. Box 214, 59-59-A Central street, Guild Hall building, owned by the Guild Association, occupied by Benjamin P. Sawyer and J. Ryan; damage to building, \$1,450; to contents, \$1,266.66 Cause, careless throwing away of cigarette.

September 14, 5.00 P. M. Box 23, 18 Webster street, stable owned by John P. Squire Estate, occupied by Frank Callahan and Cambridge Bag Wood Co.; damage to building, \$1,500 to contents, \$150. Cause, spark from tobacco pipe.

September 20, 7.28 P. M. Box 35, 95 Heath street, dwelling owned by Charles W. Knox, occupied by Benjamin Sherer; damage to building, \$1,505.40; to contents, \$690. Cause, going to closet with match.

October 4, 9.05 P. M. Box 23, 53 Willow street, stable and barrel sheds owned and occupied by Nathan Weiner; damage to buildings, \$650; to contents, \$870. Cause, smoking in stable.

October 13, 9.28 P. M. Box 324, 4 Florence terrace dwelling owned and occupied by Abram Weinberg; damage to building, \$1,418; to contents, \$445. Cause, unknown.

November 16, 1.38 P. M. Box 232, 362 Somerville avenue, store and dwelling owned by P. Volpe, occupied by I. Baum; damage to building, \$423; to contents, \$900. Cause, lamp explosion.

December 16, 4.56 P. M. Box 427, 17-19 Cutter avenue, dwelling owned and occupied by James M. Towle and Andrew A. Wilson; damage to building, \$1,750; to contents, \$900. Cause, overheated furnace pipe.

December 24, 3.17 A. M. Box 39, 330 Lowell street, dwelling owned by Elizabeth C. Lowrey, occupied by Peter Mulloney; damage to building, \$861; to contents, \$250. Cause, incendiary.

December 24, 11.49 P. M. Box 421. 59-59-A Central street, Guild Hall building owned by Somerville Guild Association, occupied by Benjamin P. Sawyer and J. Ryan; damage to building, \$486; to contents, \$550. Cause, careless throwing away of cigarette.

December 25, 12.20 A. M. Box 114, 120 Linwood street, dwelling owned by John P. Squire Estate, occupied by Michael Ellison; damage to building, \$750; to contents, \$566. Cause, incendiary.

False alarms are still too numerous and emphasis must again be laid upon an effort being made to stop this criminal thoughtlessness. The city is fast motorizing its apparatus, thereby installing finer and more expensive machinery and eternal care must be exercised to keep this class of apparatus in readiness to respond to legitimate alarms for fires. Appara-

tus responding to a false alarm may, through accident, be put temporarily out of service when its assistance at an actual fire would be of inestimable value.

Careless smokers have been responsible for a very considerable amount of the fire loss. Mercantile establishments should restrict the time and place, when and where its employees may smoke, and the use of cigarettes in such places should be strictly prohibited.

Defective chimneys and cellars littered with rubbish have contributed no small amount to the total loss. The adoption of an annual house-cleaning day with the co-operation of the health department, when all useless collections of old clothes, boxes, papers and rubbish in cellar and garret could be disposed of, would materially reduce this class of fires.

There have been 123 applications for bonfire permits, eighty-four of which were investigated and granted. The number of alarms from this cause has been very materially reduced, owing in a great measure to the activity of the police department in enforcing the "Setting of Fires" ordinance.

During June and July there was an epidemic of incendiarism in the Patch district, so-called, and the department was called upon two or three times daily to extinguish fires, the offices of the police and the state fire marshal being required to put a check upon them.

On March 18, there was delivered to the city from the American La-France Fire Engine Co., of Elmira, N. Y., a six cylinder, double tank combination chemical engine and hose wagon designed for service at the Central Fire Station, but the condition of the apparatus at Hose 5 Station was so insecure that this piece of apparatus was placed in service at that station on March 28.

Considerable attention has been given during the year to the up-keep and appearance of the apparatus: Hose 5 wagon was repainted and placed in Engine 2 station; Engine 4 wagon, painted and varnished; Engine 6 wagon, painted and varnished; Hose 3 painted and varnished, and Ladder 2 was given a thorough overhauling and painted and sent to the Union Square Station to replace Ladder 1, which has been unsafe and unfit for service for a long time.

The machine shop is demonstrating itself to be of the most valuable importance to the department. Owing to the installation of more and larger pieces of motor apparatus, the shop will be called into more frequent use, and for the purpose of meeting an exigency; it has been enlarged to twice its original size and equipped with every needed tool and machine to perform such work as can be satisfactorily done outside the manufacturers' machine shops.

Recommendations.

The enormous fire loss throughout the country is one of the paramount issues of the day and everything is being done to reduce it, and to that end all departments are motorizing their apparatus. Our city has made wonderful progress in this direction, resulting in a marked improvement in the efficiency of the department, and the motorizing of the whole department is desirable. This can be done with the most up-to-date equipment for a sum not exceeding \$38,500 and I suggest that, if it cannot be done in one year, as much as practicable be done each year.

I recommend the immediate motorizing of the horse-drawn combination chemical engine and hose wagon located on Marshall street, Winter Hill. This can be done by the purchase of a chassis, the labor of changing same being done in the department machine shop. This piece of apparatus is scheduled to report to six Medford boxes on first alarms. Alarms from these boxes, together with the Somerville boxes and still alarms responded to in this section has obliged this company to climb Winter Hill sixty-six times this year.

Complete efficiency is the goal for which all fire departments are striving, and to that end, besides having up-to-date machinery, it is necessary to have Johnny-on-the-spot men. It is therefore necessary that the force consist of all permanent men to respond with the rapid moving apparatus, which cannot stop to pick up men while en route to a fire, as has been the custom with horse-drawn apparatus. This can be done by discontinuing the call force, consisting of thirty (30) men, whose salaries total \$6,000 and adding eighteen (18) men to our permanent force, whose salaries the first year will be \$16,200 or an added increase of \$10,200 to the maintenance the first year.

With the advent of motor driven apparatus, a quicker striking fire alarm service is imperative if we intend to get the best, in fact only results, of this improved style of apparatus. The foundation upon which the fire department rests is its fire alarm service. Our present system is very far behind the times and our efficiency depends upon a new and complete equipment.

Somerville's fire hazard is very high owing to lack of defined fire limits and districts, building laws that do not provide adequately against fire, the chief concern seemingly being security against collapse, the large percentage of frame dwellings with shingled roofs, and the small distance between buildings.

I recommend the re-enactment of that part of Chapter 20, Section 60 of the revised ordinances relative to repairing roofs, the shingling ordinance, so-called, also that all side walls of all wooden buildings shall be placed not less than five feet from the line, and where a wooden building is already erected upon

an adjoining lot, there shall be left between the walls of the building erected and the one to be erected if of wood, a clear, open space of ten feet; if a brick wall is substituted for a wooden wall, there shall be no opening in brick wall if less than ten feet from adjoining building.

Again I urge the enactment of an ordinance requiring the inspection of buildings by the fire department. On May 1, I submitted a draft of an inspection ordinance to the board of aldermen. I urge this, or one of similar import be given early attention. Inspection of buildings by the officers and members of the fire department is of the utmost importance, in that they may inform themselves relative to entrances, stairways, trapdoors, elevators, and passageways, the location of cut-offs to gas, water and electricity, and furthermore, ascertain and cause to be corrected any conditions liable to cause fire or any violations of any ordinance of the city affecting the fire hazard.

In Conclusion.

The personnel of the department and the character and appearance of the men together with the fire fighting equipment is of a very high standard; it is very gratifying to be able to state that the efficiency and discipline of the department are unusually good. Too much praise cannot be accorded the officers and members of the department for their readiness and promptness in the performance of the department work.

To His Honor, the Mayor, the Public Safety Committee and the Board of Aldermen unusual credit is due for the generous response to the recommendations in the report of the previous year, all of which has tended to the advancement and greater efficiency of the department.

Respectfully submitted,

SEWALL M. RICH,

Chief Engineer.

REPORT OF THE CHIEF OF POLICE.

OFFICE OF CHIEF OF POLICE, }
CITY OF SOMERVILLE, January 20, 1914. }

To the Honorable, the Mayor, and Board of Aldermen of the
City of Somerville:—

Gentlemen,—I herewith respectfully submit for your consideration my fifth annual report as chief of police, giving in detail the amount of work performed by the police department for the year ending December 31, 1913:—

Arrests.

Whole number of arrests made	1,480
With and without warrants	1,081
On summons and notification	399
	1,480
Males	1,400
Females	80
	1,480
Americans	985
Foreign born	495
	1,480
Residents	920
Non-residents	560
	1,480

1.—Crimes and Offenses Against the Person.

Assault	1
Assault on officer	1
Assault with dangerous weapon	4
Assault with intent to murder	2
Assault with intent to rape	2
Assault with intent to rob	1
Assault and battery	106
Assault and battery on officer	1
Manslaughter	2
Rape	2
	122

2.—Crimes and Offenses Against Property.

Arson, attempt	2
Breaking and entering	64
Breaking and entering railroad car	3
Breaking glass, wantonly	8
Burning building	2
Defacing voting list	1
Fraud	1
Larceny	92
Larceny from person	3
Larceny in building	3
Malicious mischief	3
Mortgaged property, concealment of	1
Carried forward	183

Brought forward	183
Receiving stolen property	7
Trespass	17
Unclean milk bottles, in possession of	1
Unlawful appropriation of horse	4
Unlawful taking of team	2
Unlawful use of registered milk cans	5
Wilful injury to real estate	2

221

3.—Crimes and Offenses Against Public Order, etc.

Bail surrender	5
Bastardy	5
Capias	10
Carrying revolver without license	1
City ordinances, violation of	102
Cruelty to animals	2
Default	5
Delinquent children	2
Deserter, United States Navy	1
Desertion of wife	3
Disorderly conduct on public conveyance	2
Disturbing the peace	5
Disturbing public school	1
Dog keeping, vicious	1
Drunkenness	510
Drunkenness, common	12
Escaped from hospital at Foxboro	1
Escaped from truant school	1
Explosives placed on railroad track	1
Forgery	1
Furnishing liquor to prisoner	1
Giving false weight of ice	5
Giving false weight of potatoes	1
Incest	1
Indecent exposure of person	6
Labor laws, violation of	32
Lewdness	2
Lewd and lascivious cohabitation	1
Liquor laws, violation of	13
Loitering on railroad grounds	3
Neglected children	26
Neglect of family	93
Neglect to support illegitimate children	2
Peddling without license	5
Polygamy	1
Rescue of prisoner	2
Rescue of prisoner, attempt	2
Safe keeping, delirium tremens	4
Safe keeping, demented	1
Safe keeping, infirm	1
Safe keeping, insane	2
Safe keeping, lost boy	1
Safe keeping, runaways	8
Selling horse unfit for labor	1
Sodomy	1
Stubbornness	12
Carried forward	898

Brought forward	898	
Throwing glass in public highway	1	
Throwing missiles at railroad cars	3	
Unlawfully attempting to ride on freight cars	6	
Unlawfully riding on freight cars	12	
Unlawfully storing gasoline	1	
Uttering forged order	1	
Vagrants	11	
Violation of automobile laws	136	
Violation of cigarette laws	4	
Violation of Lord's Day	24	
Violation of milk laws	9	
Violation of parole from industrial school	1	
Violation of public park rules	2	
Violation of school law	1	
Violation of terms of probation	9	
Wayward child	1	
Walking on railroad track	16	
Witness to manslaughter	1	
		1,137

Recapitulation.

(1) Crimes and Offenses Against the Person	122	
(2) Crimes and Offenses Against Property	221	
(3) Crimes and Offenses Against Public Order, Etc., ...	1,137	
Whole number of arrests made		
		1,480
Bailed to appear at other courts	5	
Cases dismissed in police court	11	
Cases in which nolle prosequi was entered	10	
Delivered to jail at East Cambridge, bail surrender	3	
Delivered to jail at East Cambridge, capias	1	
Delivered to jail at East Cambridge, vio., probation, ...	1	
Delivered to superior court, bail surrender	2	
Delivered to superior court, capias	4	
Delivered to police court Somerville, capias	1	
Delivered to police court Somerville, default	4	
Delivered to United States navy yard, deserter	1	
Released from custody, violation of probation	1	
Released by probation officer, for drunkenness	27	
Surrendered to other officers, institutions, etc.	66	
Witness in manslaughter case, held under bonds	1	
Cases in which no prosecution was made in Somerville		
		138
Number of cases held for trial		
		1,342

Note.—Two hundred and seventeen of the above number of cases were juveniles and delinquents.

Miscellaneous Reports.

Abandoned automobiles found	2
Accidents reported	203
Amount of property reported stolen	\$15,504.37
Amount of stolen property recovered	13,058.91
Amount of property reported lost	894.47
Amount of lost property recovered	91.49
Amount of property reported destroyed and damaged	111.50

Angora cat found	1
Assault, attempt	1
Assaults	11
Assault and battery	1
Assault with dangerous weapon	2
Attempts to break and enter, false alarm of	3
Attempts to break and enter	23
Attempt to break open gas meter	1
Attempts to commit arson	2
Attempts to commit larceny	4
Attempts to commit suicide	5
Attempt to rob	1
Automobile, reckless driving of	1
Bogus gas inspector	1
Bridge steps dangerous, from snow	1
Building broken and entered, false alarm of	1
Buildings broken and entered, nothing stolen	30
Building damaged by wind	1
Building dangerous	1
Buildings erected, repaired, etc.	5
Buildings found open	365
Burglary, false alarm of	1
Chimney blown down	1
Coon cat missing	1
Dead animal found	1
Dead horse reported	1
Dead body found	1
Defective billboard	1
Defective boundary stone	1
Defective bridges	7
Defective catch-basins	12
Defective fire alarm box	1
Defective gas gate box	1
Defective hydrants	3
Defective manhole covers	7
Defective park fence	1
Defective poles	7
Defective sidewalks	352
Defective signs and sign posts	10
Defective streets	84
Defective subways	2
Defective telephone service in police signal system	1
Defective water gate boxes	14
Defective water pipe	1
Defective wires	29
Disturbances suppressed	8
Dogs killed	12
Dogs lost	3
Fence dangerous	1
Fires, alarms given for	17
Fire, false alarms of	15
Fires, needless alarms for	2
Fires, incendiary	7
Fires reported	93
Fires, still alarm for	2
Fire alarm boxes, glass broken	10
Fraud	3
Gas leak	1
Goat killed	1
Heat prostration	1

Horses killed	2
Larceny attempt	1
Larceny, false report of	1
Larcenies, no value given	23
Larcenies reported	384
Lost children	4
Lost children found	30
Malicious mischief	5
Missing persons	21
Missing persons found	12
Neglected children	2
Obstructions in streets	22
Obstructions in streets, lighted	2
Obstructions in streets, removed	2
Obstructions on sidewalks	3
Offal uncollected	1
Panes of glass broken	55
Park walk dangerous	1
Permits granted to labor on Lord's Day	88
Persons bitten by dogs	2
Persons helped home	2
Personal property, injury to	1
Property damaged, no value given	5
Property lost, no value given	16
Property found, no value given	20
Prospect Hill tower, railing dangerous	1
Rape	1
Robberies	2
Runaway boys	2
Runaway boys found	3
Runaway teams stopped	5
Sick horse	1
Sidewalks dangerous from snow and ice	31
Slot machines broken	4
Still born infant found	1
Stray dogs	3
Stray dogs found	2
Stray horse	1
Stray horses found	3
Stray teams	2
Stray teams found	5
Street lights reported	4,256
Strike	1
Sudden deaths	3
Suicides	3
Suicide, threatened	1
Summonses served for witnesses and defendants to appear at court at other places	95
Suspicious persons	8
Team hired and not returned	1
Trees blown down	2
Trees dangerous	36
Unlawful appropriation of automobile	1
Unlawful appropriation of horses	4
Vacant houses	5
Violation of city ordinances	6
Water pipes leaking	85
Windows broken	15
Window peeper	1

Police Signal Service and Horse Drawn Patrol Wagon and Horse Drawn Ambulance Reports.

Number of on duty reports made by the patrolmen	274,658
Number of telephone calls	31,024
Number of runs made with the patrol wagon	19
Number of prisoners conveyed to station in patrol wagon	28
Number of miles run with the patrol wagon	23
Number of sick and injured persons conveyed in ambulance, ...	330
Number of miles run in conveying prisoners to and from jail	688
Number of miscellaneous runs made with patrol wagon and ambulance	28

Automobile Patrol-Ambulance.

Number of runs, made in conveying prisoners to station	631
Number of prisoners conveyed to station	768
Number of sick and injured conveyed	375
Number of miles run in conveying prisoners to station	1,485.0
Number of miles run in conveying sick and injured, ...	1,284.5
Number of miles run in conveying prisoners to and from jail	186.1
Number of miles run elsewhere	1,370.0
Total number of miles run for all purposes	4,325.6

Official Roster of Department.**CHIEF OF POLICE.**

Charles A. Kendall.

CAPTAIN.

Robert R. Perry.

LIEUTENANTS.Dennis Kelley.
Eugene A. Carter.

Charles E. Woodman.

SERGEANTS.Edward McGarr.
George H. Carleton.James M. Harmon.
John A. Ray.**INSPECTORS.**

Thomas Damery.

Michael T. Kennedy.

PATROLMEN.

Edward M. Carter.
George L. Smith.
Francis A. Perkins.
Jacob W. Skinner.
Theodore E. Heron.
Ezra A. Dodge.
Charles W. Stevens.
Daniel G. Simons.
Samuel Burns.
Frederick H. Gogins.
Jotham Chisholm.
William J. Davidson.
Elmer E. Drew.
John A. Dadmun.
Eugene A. Woodsum.
George L. Rice.
Myron S. Gott.
Charles W. Reick.
Frank C. Hopkins.
Charles W. Allen.
Hudson M. Howe.
Ernest S. Goff.
Sanford S. Lewis.
Frank H. Graves.
Henry A. Sudbey.
Thomas F. McNamara.
Louis F. Arnold.
Charles S. Johnston.
James M. Lynch.
Martin Sharry.
Robert T. Blair.
Ernest Howard.

Claude L. Crossman.
John J. Cummings.
Lemuel J. Simons.
Edmund J. Keane.
Denis Neylon.
Denis Downey.
Edward M. Davies.
George A. C. Peters.
James E. Phillips.
Louis J. Belzarini.
Walter Reed.
Dennis G. Mulqueeney.
Patrick J. Doolin.
Edward J. Hopkins.
William G. Kenney.
Walter L. Groves.
Frederick G. Jones.
Joseph A. Dwyer.
Thomas P. Walsh.
Clyde W. Steeves.
Augustine J. Fitzpatrick.
Patrick McGrath.
Bernard McCabe.
Harry C. Young.
Robert D. Dewar.
Peter Moore.
Albert C. Hawes.
Walter C. Oesting.
John L. Cameron.
Francis P. Higgins.
Arthur S. Walsh.

RESERVE MEN.

John J. McCahey.
Alexander Morrison.
Daniel J. Powers.
Jeremiah O'Connor.
James P. Higgins.

Charles E. Wilson.
William J. Warner.
Timothy Buckley.
John J. Killourhy.
Charles J. Sharry.

CHAUFFEURS AND PATROL DRIVERS.

Charles J. Fulton.

James H. White.

James W. Lundergan.

MATRON.

Minnie F. Woodland.

PENSIONERS, RETIRED ON HALF-PAY.

George W. Bean, July 2, 1902.

James J. Pollard, Feb. 27, 1908.

Albion L. Staples, Mar. 24, 1905.

Melville C. Parkhurst, Oct. 31, 1908.

John E. Fuller, Mar. 23, 1906.

Herbert Hilton, Dec. 21, 1911.

Ira S. Carleton, May 9, 1907.

CHANGES IN THE PERSONNEL OF THE DEPARTMENT DURING THE YEAR.

February 14, 1913, Martin Sharry, patrolman, died.

October 17, 1913, Minnie F. Woodland, matron, discharged.

December 31, 1913, Dennis Kelley, lieutenant, retired and placed upon a pension.

Absence from Duty.

Officers have been absent from duty the following number of days for absence with leave, regular days off, sickness or disability and annual vacations:—

	Absent.	Days off.	Sick.	Vacation.	Total.
Kendall, Charles A.....	0	6½	17	8	31½
Perry, Robert R.....	0	½	3	0	3½
Kelley, Dennis.....	0	24	0	14	38
Carter, Eugene A.....	0	24	0	14	38
Woodman, Charles E.....	4	24	0	14	42
McGarr, Edward.....	2	24	0	14	40
Carleton, George H.	0	21	0	14	35
Harmon, James M.....	0	24	11	14	49
Ray, John A.....	0	21	0	14	35
Damery, Thomas.....	3	24	0	14	41
Kennedy, Michael T.....	0	13	0	14	27
Allen, Charles W.....	0	24	0	14	38
Arnold, Louis F.....	12	24	7	14	57
Belzarini, Louis J....	2½	24	1	14	41½
Blair, Robert T.....	1	24	0	14	39
Burns, Samuel.....	3	24	6	14	47
Carter, Edward M.....	0	24	0	14	38
Chisholm, Jotham.....	0	24	3	14	41
Crossman, Claude L.....	3	24	0	14	41
Cummings, John J.....	2	24	0	14	40
Dadmun, John A.....	0	24	0	14	38
Davidson, William J.....	0	24	8	14	46
Davies, Edward M.....	0	24	0	14	38
Dewar, Robert D.....	0	24	24½	14	62½
Dodge, Ezra A.....	0	24	40	14	78
Doolin, Patrick J.....	0	24	3	14	41
Downey, Denis.....	5	24	28	14	71
Drew, Elmer E.....	4	24	56	14	98
Dwyer, Joseph A.....	4	24	0	14	42
Fitzpatrick, Augustine J.....	3	24	1	14	42
Goff, Ernest S.....	2	24	0	14	40
Googins, Frederick H.....	1	24	0	14	39

	Absent.	Days off.	Sick.	Vacation.	Total.
Gott, Myron S.....	0	24	0	14	38
Graves, Frank H.....	1	24	3	14	42
Groves, Walter L.....	7	21	51	14	93
Hawes, Albert C.....	1	24	0	14	39
Heron, Theodore E.....	1	24	14	14	53
Higgins, Francis P.....	0	24	0	14	38
Hopkins, Edward J.....	3	24	0	14	41
Hopkins, Frank C.....	0	24	0	14	38
Howard, Ernest.....	5	24	0	14	43
Howe, Hudson M.....	1	24	0	14	39
Johnston, Charles S.....	1	24	20½	14	59½
Jones, Frederick G.....	0	24	0	14	38
Keane, Edmund J.....	0	24	1	14	39
Kenney, William G.....	0	24	0	14	38
Lewis, Sanford S.....	7	24	0	14	45
Lynch, James M.....	0	24	0	14	38
McCabe, Bernard.....	2	24	0	14	40
McGrath, Patrick.....	0	24	0	14	38
McNamara, Thomas F.....	0	24	27	14	65
Moore, Peter.....	0	24	3	14	41
Mulqueeney, Dennis G.....	4	24	6	14	48
Neylon, Denis.....	0	24	10	14	48
Oesting, Walter C.....	0	24	7	14	45
Perkins, Francis A.....	0	24	1	14	39
Peters, George A. C.....	2	24	0	14	40
Phillips, James E.....	1	24	10	14	49
Reed, Walter.....	2	24	0	14	40
Reick, Charles W.....	0	24	0	14	38
Rice, George L.....	0	24	0	14	38
Simons, Daniel G.....	3	24	0	14	41
Simons, Lemuel J.....	0	24	19	14	57
Skinner, Jacob W.....	0	24	0	14	38
Smith, George L.....	0	24	0	14	38
Steeves, Clyde W.....	1	24	0	14	39
Stevens, Charles W.....	0	24	5	14	43
Sudbey, Henry A.....	5	24	5	14	48
Walsh, Arthur S.....	22	24	0	14	60
Walsh, Thomas P.....	0	24	5	14	43
Woodsum, Eugene A.....	1	24	0	14	39
Young, Harry C.....	0	24	0	14	38
Fulton, Charles J. (Chauffeur).....	0	24	2	14	40
Lundergan, James W. (Chauffeur).....	0	24	2	14	40
White, James H. (Chauffeur).....	7	24	0	0	31
	128½	1,739	400	1,016	3,283½

Performance of Duties.

The officers have all performed their trying duties in a creditable manner and the city has been very orderly and I believe there is no city of its size in the country that on the whole is better than this city in this respect.

The liquor laws have been well enforced and the city has been very free from illegal liquor traffic.

The juvenile offenders have been of much annoyance to citizens as usual, yet I think there has been a marked improve-

ment the past year in dealing with this class of offenders after they have been before the court, due to the supervision exercised over them by the two probation officers.

Three officers were detailed for duty at Milford, Mass., for a period of three weeks, to assist the police there during a strike in that town.

A large number of incendiary fires were set during a period of the year. A man was arrested and held for the grand jury, being later indicted and tried in the superior court—the jury disagreed and he was released from custody and on the same day set another fire and was arrested again, bailed and finally sent to an insane hospital.

The large amount of travel through Somerville by automobiles has necessitated the detailing of officers for traffic duty and this duty seems to be increasing.

The moving picture houses, dances, entertainments, etc., have called for a large number of extra details of police.

Recommendations.

I wish to renew my request for more motor vehicles and improvements to be made in the police building, such as laying new floors, painting and refinishing the interior of the building.

The appointment of additional sergeants and patrolmen.

Conclusion.

I wish to express my thanks to the Mayor, Honorable Charles A. Burns, for his hearty support of all good work performed by the members of this department; to Judge L. Roger Wentworth; Clerk of Courts, Daniel H. Bradley; Probation Officers William P. Jones and James T. Mulroy, and to my associates in the police department who have assisted by their fidelity to duty.

Respectfully submitted,

CHARLES A. KENDALL,

Chief of Police.

REPORT OF SEALER OF WEIGHTS AND MEASURES.

OFFICE OF SEALER OF WEIGHTS AND MEASURES, }
City Hall Annex, Somerville, January 1, 1914. }

To His Honor, the Mayor, and the Board of Aldermen:—

The following report of the sealer of weights and measures for the year 1913 is respectfully submitted:—

Section 21, chapter 62, of the Revised Laws provides that sealers of weights and measures shall annually give public notice by advertisement, or by posting, in one or more public places in their respective cities and towns, notices to all inhabitants or persons having usual places of business therein who use weights, measures or balances for the purpose of selling goods, wares, merchandise, or other commodities or for public weighing to bring in their weights, measures and balances to be adjusted and sealed. Such sealers shall attend in one or more convenient places, and shall adjust, seal and record all weights, measures and balances so brought in.

Section 34 of the same chapter provides that each sealer of weights and measures, including the county treasurers, shall receive a fee of one dollar for sealing each platform balance if weighing five thousand pounds or more, and fifty cents if weighing less than that amount, and three cents each for sealing all other weights, measures, scales, beams or balances. He shall also have a reasonable compensation for all necessary repairs, alterations and adjustments made by him.

Where weights, measures and balances are sealed as provided in Section 21 (that is, brought to the office), no fee is charged for sealing.

In compliance with the foregoing Section 21, the customary notice was given by advertising in the Somerville Journal and the Somerville Reporter in March, 1913.

During the year the sealer visited all places in the city where goods were brought or sold, tested all scales, weights and measures, sealed those which were found correct, and condemned all found beyond repair and useless.

214 scales, weights and measures were adjusted before sealing, thirty-nine scales were tagged for repairs, sixteen of which were repaired as ordered, and the remaining fifteen put out of use.

Work done in weights and measures during the year 1913:—

	No. of Tests Made at Office.	No. of Tests Made out of Office.	
Number of scales sealed	523	1,829	
Number of weights sealed	290	4,374	
Number of dry measures sealed	140	116	
Number of tin liquid measures sealed	8,056	1,415	
Number of glass liquid measures sealed	1,728	0	
Number of yard sticks sealed	0	171	
Number of coal and berry baskets sealed	5	0	
Number of miscellaneous sealed	9	9	
Number of store weighings	0	4,150	
Total number of all kinds sealed	10,751	12,064	22,815
Number of scales adjusted and sealed	43	34	
Number of weights adjusted and sealed	38	73	
Number of dry measures adjusted and sealed	0	0	
Number of liquid measures adjusted and sealed	26	0	
Total number adjusted and sealed	107	107	214
Number of scales tagged for repairs	17	22	
Number of scales repaired as ordered	13	3	
Total number tagged and repaired	30	25	55
Number of scales condemned	17	4	
Number of weights condemned	0	0	
Number of dry measures condemned	6	0	
Number of liquid measures condemned	153	1	
Number of yard sticks condemned	0	1	
Number of miscellaneous condemned	0	0	
Total number condemned	176	6	182
Total number tested in and out of office			23,266
Receipts for the year 1913:—			
Appropriation	\$2,500 00		
Fees received for sealing and adjusting	475 90		
			\$2,975 90
Expenditures for the year 1913:—			
Telephone service	25 81		
Printing books and supplies	120 85		
Amount paid for team	353 50		
Amount paid for helper	33 50		
Salary of sealer	1,100 00		
Salary of deputy sealer	900 00		
			2,533 66
Unexpended balance			\$442 24

JOHN H. DUSSEAUT,
Sealer of Weights and Measures.

REPORT OF THE CITY SOLICITOR.

Somerville, January 15, 1914.

To the Honorable, the Mayor, and Board of Aldermen of the City of Somerville:—

The following is my report as city solicitor for the year 1913:—

Actions in court and claims for injuries received by reason of defects in public ways were settled for \$30, \$50, \$56, \$60, \$87.50, \$100, \$125, \$225, \$500, \$600, \$600 and \$800. Three of these settlements were made without expense to the city, an abutting owner making the payment of \$50 and the Boston Elevated Railway Co. making the payments of \$225 and \$800. An action brought because of a defect in a public way at an approach to a railroad bridge was discontinued without expense to the city.

An action brought by the town of Norwood to recover expenditures made for the support of a poor person was discontinued without expense to the city.

A petition for a writ of mandamus brought against the mayor to compel the re-instatement of a patrol driver in the police department was dismissed by a justice of the supreme court principally for the reason that the petitioner had not been lawfully employed.

The work of construction in the abolition of grade crossings at Medford street and at Dane street is practically completed. Work has not yet begun at Park street. An action brought by J. Walter Sanborn for damages to land and buildings on Prospect street, in which a verdict for \$3,011.25 was given by the jury, has been settled by the payment of \$2,900, without costs or interest. Many claims for land damages at various crossings have been settled during the year by agreement with the owners.

Two bills before the legislature were successfully opposed, one providing for a change in the basis of apportioning the expenses of the Metropolitan Water District, whereby a larger share would have been placed upon this city, the other requiring various cities and towns to pay a part of the expenses of constructing and maintaining bridges over the Charles River between Cambridge and Boston. A special act was secured to provide for the care of surface water at the new grade of Medford street. An amendment to the building laws of the state was secured, whereby the reasons have been taken away for which the court held to be invalid an ordinance of this city in regard to non-combustible roof coverings.

Very respectfully,

FRANK W. KAAH,

City Solicitor.

REPORT OF THE CITY CLERK.

OFFICE OF THE CITY CLERK, }
January 1, 1914. }

To the Honorable, the Mayor and the Board of Aldermen:—

Gentlemen,—The following is respectfully submitted as the forty-second annual report of the city clerk of the city of Somerville, and is for the year ending December 31, 1913.

The receipts and payments were as follows:—

Receipts.

Balance from year 1912, being for dog licenses issued in December, 1912:—		
3 males at \$2.00	\$6 00	
1 female at \$5.00	5 00	
		\$11 00
Less city clerk's fees paid to the city treasurer in December 1912, 4 at \$.20		80
		\$10 20
For dog licenses issued in 1913:—		
1,159 males at \$2.00	\$2,318 00	
257 females at \$5.00	1,285 00	
111 spayed at \$2.00	222 00	
		\$3,825 00
Recording mortgages, assignments, etc., 852 papers	\$571 00	
Certificates of marriage intentions:—		
914 licenses, including 2 duplicates, at \$1.00	\$916 00	
money refunded on 1 not issued, ...	1 00	
		915 00
Furnishing copies of records	188 00	
Licenses:—		
Amusements:—		
54 monthly licenses at \$4.00	\$216 00	
293 licenses for 376 entertainments at \$1.00	376 00	
		592 00
Auctioneers, 23 at \$2.00	46 00	
Billiard and pool tables and bowling alleys, 24 licenses for 73 tables and 40 alleys, at \$2.00	226 00	
Cry goods and calling, 84 at \$1.00	\$84 00	
3 applied for and petitions not returned	3 00	
		87 00
Amounts carried forward		
	\$2,625 00	\$3,835 20

Amounts brought forward	\$2,625 00	\$3,835 20
Drain layers, 8 at \$1.00	8 00	
Drivers, 5 at \$1.00	5 00	
Engines and motors, 24 li- censes for 31 motors, 1 boiler and 1 gas engine, in- cluding 3 paid in 1912, mak- ing 21 at \$1.00	\$21 00	
2 licenses for 1 boiler and 1 motor, not acted on	2 00	
		23 00
Hackney carriages, 5 licenses for 9 carriages at \$1.00	9 00	
Garages, 67 licenses, includ- ing 2 paid in 1912, making 65 at \$2.00	\$130 00	
2 refused and money not called for	4 00	
		\$134 00
refunded on 2 refused in 1912	4 00	
		\$130 00
5 petitions not acted on	10 00	
		140 00
Innholders and common victual- lers, 61 licenses for 1 inn- holder and 60 victuallers, including 2 paid in 1912, making 59 at \$2.00	\$118 00	
2 refused and money not called for	4 00	
		122 00
Intelligence offices, 6 at \$2.00	12 00	
Junk and second-hand licenses:—		
31 licenses at \$10.00	\$310 00	
17 licenses at \$25.00	425 00	
		\$735 00
1 granted in 1912, paid in in 1913	25 00	
		760 00
Private detectives, 6 at \$10.00	60 00	
Ring bells, 13 at \$1.00	13 00	
Slaughtering, 6 at \$1.00	6 00	
Street musicians, 10 licenses for 17 per- sons, including 1 license for 2 per- sons paid in 1912, making 15 at \$.50	7 50	
Wagons, 52 licenses for 102 wagons at \$1.00	102 00	
Wagon stands, 4 at \$1.00	4 00	
Gasoline tanks:—		
7 licenses at \$1.00	\$7 00	
1 not acted on	1 00	
		8 00
Amounts carried forward	\$3,904 50	\$3,835 20

Amounts brought forward	\$3,904 50	\$3,835 20
Sale of ice cream, confectionery, soda water and fruit on the Lord's Day:—		
18 licenses at \$5.00	\$90 00	
1 not acted on	5 00	
		95 00
Permits for projections over sidewalks:—		
21 signs and 3 awnings, includ- ing 1 paid in 1912, making		
23 at \$1.00	\$23 00	
1 refused and money not called for	1 00	
		24 00
Permits to transport liquors:—		
22 permits at \$1.00	\$22 00	
1 refused and money not called for	1 00	
		\$23 00
refunded on 1 refused in 1912	1 00	
		22 00
Recording and issuing sixth-class liquor licenses, 29 at \$1.00	29 00	
Filing certificates, 3 at \$.50	1 50	
Repairing and sale of junk badges	3 25	
Notices of hearings (public service cor- porations)	33 58	
Interest on deposits	9 54	
		\$4,122 37
Total receipts		\$7,957 57

Payments.

To Joseph O. Hayden county treasurer, June 1 to December 1, receipts for dog licenses from December 1, 1912, to November 30, 1913, both inclu- sive:—		
1,109 males at \$2.00	\$2,218 00	
245 females at \$5.00	1,225 00	
110 spayed at \$2.00	220 00	
		\$3,663 00
Less city clerk's fees, 1,464 at \$.20	292 80	
		\$3,370 20
To the city treasurer, monthly:—		
City clerk's fees for issuing and recording dog licenses from December 1, 1912, All the receipts above specified, except for dog licenses	4,122 37	
		\$4,427 77
Total payments		\$7,797 97
Balance, January 1, 1914, being for dog li- censes issued in December, 1913:—		
53 males at \$2.00	\$106 00	
		\$106 00
Amount carried forward	\$106 00	

Amount brought forward	\$106 00	
13 females at \$5.00	65 00	
1 spayed at \$2.00	2 00	
	\$173 00	
Less city clerk's fees paid to the city		
treasurer, 67 at \$.20	13 40	
		<u>\$159 60</u>

There have been issued during the year 207 resident hunters' certificates at one dollar each, the fees for which have been paid monthly to the commissioners on fisheries and game of the commonwealth; total, \$207.

Licenses and Permits.

Besides the licenses mentioned in the foregoing list of receipts, licenses and permits have been granted by the board of aldermen, without charge, as follows:—

Auctioneers (to veterans of the Civil War)	2
Children under fifteen to take part in entertainments	7
Newsboys	35
To blast rock or stone	7
To erect or use buildings for gasoline	27
To hold religious services in streets and squares	3
To move buildings through streets	5
To parade in streets, with music, etc.	10
To hold open-air meetings	4
To give band concerts (one permit for seven concerts)	1
To build coal vault in sidewalk	1

Gas and Pole Locations.

The Cambridge Gas Light Company and the Charlestown Gas and Electric Company have been granted permission to lay gas mains in sundry streets.

Permission has also been granted The Edison Electric Illuminating Company of Boston and The New England Telephone and Telegraph Company of Massachusetts for the erection of poles and for the attachment of wires and fixtures, and to the West End Street Railway Company for track locations and electric rights in various streets.

In every order of the board of aldermen granting such permission to use the streets provision is made for the protection of the interests of the city and a suitable agreement, satisfactory in form to the city solicitor, must be filed with the city clerk before the order can become operative.

Births.

1913.

Number of births reported by physicians and midwives for 1913:—

Males	897
Females	846

A canvas of the city is at present being made under the direction of the city clerk as required by section 5, chapter 29, of the Revised Laws, to ascertain the facts required for record relative to all children born therein during the year.

As information derived from such canvas will not be available in time sufficient for its incorporation in this report, a statement in full of the births of 1913 will be given in the city clerk's report for the year 1914.

1912.

The following is a statement in full of the births for 1912:—

Number of births (exclusive of still-births) in Somerville in 1912 registered	1,808
More than previous year	52
Males	935
Females	873
	1,808
Born of American parents	679
Born of foreign parents	756
Born of American father and foreign mother	164
Born of foreign father and American mother	197
Born of American mother and father of unknown nationality	10
Born of foreign mother and father of unknown nationality	1
Born of parents of unknown nationality	1
	1,808
Number of still-births in Somerville in 1912 registered	72
Number of births in other places in 1912 registered	305
	2,185
Number of cases of twins	20

Marriages.

Number of intention certificates issued in 1913	914
More than previous year	1
Marriages registered	971
More than previous year	13
Both parties American	566
Both parties foreign	183
American groom and foreign bride	102
Foreign groom and American bride	120
	971 couples
First marriage of	1,755
Second marriage of	170
Third marriage of	16
Fourth marriage of	1
	971 couples

Deaths

(Exclusive of still-births.)

Number of deaths in Somerville in 1913	993
More than previous year	10
Males	490
Females	503
	993

Under ten years of age	227	
10 and under 20 years of age	26	
20 and under 30 years of age	46	
30 and under 40 years of age	72	
40 and under 50 years of age	72	
50 and under 60 years of age	115	
60 and under 70 years of age	162	
70 and under 80 years of age	173	
80 and under 90 years of age	83	
90 years of age and over	17	
		993
Age of oldest person deceased	98 yrs.	
Born in Somerville	219	
Born in other places in the United States	435	
Of foreign birth	335	
Birthplace unknown	4	
		993
Number of deaths in January	86	
“ “ “ “ February	121	
“ “ “ “ March	84	
“ “ “ “ April	89	
“ “ “ “ May	71	
“ “ “ “ June	75	
“ “ “ “ July	69	
“ “ “ “ August	78	
“ “ “ “ September	69	
“ “ “ “ October	73	
“ “ “ “ November	72	
“ “ “ “ December	106	
		993

The number of still-births recorded during the year was fifty-three. In addition to the above, 189 deaths which occurred elsewhere and two removals were recorded in Somerville, almost the entire number of persons deceased having been residents of this city.

Assessed Polls and Registered Voters.

MEN'S LISTS.

WARD.	PRECINCT.	As- sessed Polls, April 1, 1913.	REGISTERED VOTERS.							
			Nov. 20, 1912.	Re- vised Lists of July 1, 1913.	Added in Sept. and Oct., 1913.	Oct. 15, 1913.	Added in Nov., 1913.	Nov. 19, 1913.	Voted Nov. 4, 1913.	Voted Dec. 9, 1913.
Ward 1 . . .	Precinct 1 . .	1,341	737	642	52	694	13	707	549	490
" 1 . . .	" 2 . .	621	318	318	20	338	11	349	272	252
" 1 . . .	" 3 . .	524	334	305	5	310	1	311	243	221
" 1 . . .	" 4 . .	641	358	302	17	319	10	329	294	292
		3,127	1,747	1,567	94	1,661	35	1,696	1,358	1,255
Ward 2 . . .	Precinct 1 . .	1,032	455	412	15	427	8	435	345	296
" 2 . . .	" 2 . .	1,645	791	693	40	733	11	744	597	487
" 2 . . .	" 3 . .	805	399	350	17	367	5	372	291	216
		3,482	1,645	1,455	72	1,527	24	1,551	1,233	999
Ward 3 . . .	Precinct 1 . .	1,267	838	799	30	829	8	837	558	552
" 3 . . .	" 2 . .	1,118	694	622	41	663	8	671	564	465
		2,385	1,532	1,421	71	1,492	16	1,508	1,222	1,017
Ward 4 . . .	Precinct 1 . .	1,311	834	713	50	763	7	770	604	501
" 4 . . .	" 2 . .	1,136	697	610	52	662	13	675	534	492
		2,447	1,531	1,323	102	1,425	20	1,445	1,138	993
Ward 5 . . .	Precinct 1 . .	1,240	831	760	37	797	4	801	640	555
" 5 . . .	" 2 . .	986	625	578	27	605	7	612	491	439
" 5 . . .	" 3 . .	1,003	636	556	40	596	7	603	505	469
		3,229	2,092	1,894	104	1,998	18	2,016	1,636	1,463
Ward 6 . . .	Precinct 1 . .	1,695	973	881	59	940	15	955	748	564
" 6 . . .	" 2 . .	1,388	826	738	45	783	9	792	635	522
" 6 . . .	" 3 . .	1,168	763	669	62	731	7	738	602	484
		4,251	2,562	2,288	166	2,454	31	2,485	1,985	1,670
Ward 7 . . .	Precinct 1 . .	896	644	603	38	641	12	653	542	427
" 7 . . .	" 2 . .	1,191	740	667	26	693	4	697	572	514
" 7 . . .	" 3 . .	1,211	682	631	32	663	15	678	546	478
" 7 . . .	" 4 . .	1,105	679	637	31	663	20	688	550	513
		4,403	2,745	2,538	127	2,665	51	2,716	2,210	1,932
City		23,324	13,854	12,486	736	13,222	195	13,417	10,782	9,329

WOMEN'S VOTING LISTS.

WARD.	PRECINCT.	Nov. 20, 1912.	Revised Lists of July 1, 1913.	Added in Sept. Oct. and Nov., 1913.	Nov. 19, 1913.	Voted Decem- ber 9, 1913.
Ward 1	Precinct 1 .	55	51	1°	52	27
" 1	" 2 .	25	24	..	24	16
" 1	" 3 .	15	13	1	14	7
" 1	" 4 .	63	55	..	55	29
		158	143	2	145	79
Ward 2	Precinct 1 .	4	4	..	4	..
" 2	" 2 .	8	8	..	8	..
" 2	" 3 .	2	2	2	4	..
		14	14	2	16	..
Ward 3	Precinct 1 .	182	170	13	183	61
" 3	" 2 .	156	132	3	135	43
		338	302	16	318	104
Ward 4	Precinct 1 .	25	20	4	24	5
" 4	" 2 .	24	22	10	32	10
		49	42	14	56	15
Ward 5	Precinct 1 .	85	79	76	155	124
" 5	" 2 .	68	59	84	143	115
" 5	" 3 .	134	120	60	180	129
		287	258	220	478	368
Ward 6	Precinct 1 .	384	333	26	359	224
" 6	" 2 .	117	106	5	111	66
" 6	" 3 .	94	86	21	107	61
		595	525	52	577	351
Ward 7	Precinct 1 .	29	27	11	38	12
" 7	" 2 .	94	80	37	117	44
" 7	" 3 .	54	49	15	64	20
" 7	" 4 .	27	24	9	33	9
		204	180	72	252	85
City		1,645	1,464	378	1,842	1,002

Elections.

The following is a statement of the votes cast, in the several wards of the city, for the candidates for the various offices, and on various questions, at the state election held November 4, 1913:—

CANDIDATE.	PARTY.	WARDS.							TOTAL.
		1	2	3	4	5	6	7	
GOVERNOR.									
Charles S. Bird,	Progressive,	367	196	402	463	518	723	1,044	3,713
Alfred H. Evans,	Prohibition,	4	2	5	1	3	5	13	33
Eugene N. Foss,	Independent,	28	20	55	67	75	85	139	469
Augustus P. Gardner,	Republican,	297	108	365	350	467	528	626	2,741
Arthur E. Reimer,	{ Socialist, Labor,	2	8	3	2	2	8	14	39
David I. Walsh,	Democratic,	623	868	379	239	548	602	342	3,601
George H. Wrenn,	Socialist,	13	18	7	12	17	26	17	110
Blank,		24	13	6	4	6	8	15	76
LIEUTENANT-GOVERNOR.									
Edward P. Barry,	Democratic,	617	866	376	248	526	591	339	3,563
Daniel Cosgrove,	Progressive,	273	163	305	340	390	588	826	2,885
August H. Goetting,	Republican,	390	141	497	496	674	728	959	3,885
Albert J. Orem,	Prohibition,	11	4	7	7	4	5	18	56
Peter O'Rourke,	{ Socialist, Labor,	1	9	2	2	3	11	10	38
George E. Roewer, Jr.,	Socialist,	20	21	8	13	18	33	17	130
Blank,		46	29	27	32	21	29	41	225
SECRETARY.									
Frank J. Donahue,	Democratic,	623	869	392	239	550	590	346	3,609
William S. Kinney,	Republican,	389	141	476	498	626	717	921	3,768
John A. Nicholls,	Prohibition,	8	7	11	18	21	15	68	148
Fred E. Oelcher,	{ Socialist, Labor,	2	5	1	3	1	5	6	23
Ella M. Roberts,	Socialist,	21	24	9	19	26	39	31	169
Russell A. Wood,	Progressive,	246	152	307	314	374	558	754	2,705
Blank,		69	35	26	47	38	61	84	360
TREASURER.									
Charles L. Burrill,	Republican,	415	169	508	547	684	778	1,015	4,116
Charles E. Fenner,	Socialist,	21	20	9	13	20	35	52	170
Thomas A. Frissell,	Prohibition,	5	7	8	14	8	13	36	91
Warren R. Keith,	Progressive,	242	131	281	278	355	519	696	2,502
Frederick W. Mansfield,	Democratic,	605	838	369	224	524	567	326	3,453
Dennis McGoff,	{ Socialist, Labor,	5	7	1	5	1	4	3	26
Blank,		65	61	46	57	44	69	82	424
AUDITOR.									
Herbert S. Brown,	Prohibition,	20	8	10	24	18	23	48	151
David Craig,	{ Socialist, Labor,	5	5	2	5	4	8	4	37
Octave A. LaRiviere,	Progressive,	214	122	257	254	302	464	658	2,271
Samuel P. Levenberg,	Socialist,	24	21	11	21	20	38	28	163
Frank H. Pope,	Democratic,	599	838	362	213	534	556	321	3,423
John E. White,	Republican,	404	165	524	554	698	805	1,039	4,193
Blank,		92	70	52	67	60	91	112	544

CANDIDATE.	PARTY.	WARDS.							TOTAL.
		1	2	3	4	5	6	7	
ATTORNEY-GENERAL.									
Thomas J. Boynton,	Democratic,	600	831	370	228	537	549	329	3,444
Freeman T. Crommet,	Prohibition,	10	5	8	9	8	11	23	74
John McCarty,	Socialist,	22	28	13	16	22	41	23	165
H. Heustis Newton,	Progressive,	222	126	268	271	328	478	698	2,391
Ingvar Paulson,	{ Socialist,	9	5	1	2	2	6	5	30
	{ Labor,								
James M. Swift,	Republican,	412	178	525	558	698	830	1,046	4,247
Blank,		93	60	37	54	41	70	86	431
COUNCILLOR.									
John Herbert,	Progressive,	284	163	335	369	435	614	872	3,072
Alexander McGregor,	Republican,	398	161	490	500	632	732	958	3,871
Benjamin F. Sullivan,	Democratic,	583	819	350	197	502	527	291	3,269
Blank,		93	90	47	72	67	112	89	570
SENATOR									
Charles W. Berry,	Progressive,	235	146	279	307	393	442	768	2,564
Charles W. Eldridge,	Republican,	432	196	536	566	678	945	1,046	4,399
Thomas M. Nolan,	Democratic,	585	791	352	189	498	501	293	3,209
Charles H. Underhill,		....	....	....	1	....	....	....	1
Blank,		106	106	54	76	67	97	193	609
REPRESENTATIVES, 25TH DIST. (3)									
William M. Armstrong,	Republican,	447	....	591	559	726	....	....	2,323
Arthur W. Berry,	Progressive,	265	....	312	321	405	....	....	1,303
Alphonso H. Carvill,	Progressive,	223	....	313	279	367	....	....	1,182
Harvey E. Frost,	Republican,	470	....	519	555	678	....	....	2,222
Joseph E. Kelly,	Democratic,	535	....	317	176	465	....	....	1,493
William W. Kennard,	Republican,	428	....	496	530	644	....	....	2,098
John J. Murphy,	Democratic,	517	....	348	182	476	....	....	1,527
John F. Wilber,	Progressive,	265	....	242	263	350	....	....	1,120
John J. McCarthy,		1	....	....	....	....	....	....	1
John Hamilton,		....	....	....	....	1	....	....	1
John J. Ryan,		....	....	....	....	1	....	....	1
Patrick P. Howard,	Democratic,	....	....	1	....	....	....	....	1
Blank,		923	....	527	549	795	....	....	2,794
REPRESENTATIVES, 26TH DIST. (3)									
Harold W. Ayres,	Progressive,	....	154	....	....	....	549	895	1,598
William H. Dolben,	Republican,	....	157	....	....	....	746	1,028	1,931
Frank J. Eigabroadt,	Progressive,	....	124	....	....	....	415	614	1,153
Joseph O. Knox,	Republican,	....	164	....	....	....	854	997	2,015
John J. McCarthy,	Democratic,	....	804	....	....	....	511	273	1,588
John H. O'Neil,	Democratic,	....	729	....	....	....	477	250	1,456
Otto C. Scales,	Progressive,	....	127	....	....	....	444	643	1,214
Bernard J. Sheridan,	Democratic,	....	762	....	....	....	545	327	1,634
Ralph M. Smith,	Republican,	....	152	....	....	....	752	982	1,886
Blank,		....	526	....	....	....	662	621	1,809
COUNTY COMMISSIONER.									
Erson B. Barlow,	Republican,	429	159	508	560	673	774	999	4,102
John B. McCloskey,	Democratic,	568	805	352	198	503	536	295	3,257
Charles H. McIntire,	Progressive,	226	147	298	276	371	516	762	2,596
Blank,		135	122	64	104	89	159	154	827

CANDIDATE.	PARTY.	WARDS.							TOTAL.
		1	2	3	4	5	6	7	
ASSOCIATE COMMISSIONER.									
Charles W. Atkins,	Progressive,	240	146	291	301	381	518	770	2,647
Frederic P. Barnes,	Republican,	379	144	490	502	632	709	922	3,778
John J. Butler,	Democratic,	512	764	311	184	456	486	266	2,979
George W. Enwright,	Democratic,	479	711	280	164	422	464	279	2,799
Edwin P. Fitzgerald,	Republican,	364	149	480	461	582	669	814	3,519
Albert F. Parker,	Progressive,	223	142	280	283	351	527	718	2,524
Blank,		519	410	312	381	448	697	651	3,318
DISTRICT ATTORNEY.									
Philip M. Clark,	Progressive,	214	141	271	275	353	542	778	2,574
William J. Corcoran,	Democratic,	605	796	346	191	489	532	291	3,250
John J. Higgins,	Republican,	418	182	533	584	707	785	998	4,207
Blank,		121	114	72	88	87	126	143	751
REGISTER OF PROBATE AND IN- SOLVENCY.									
James T. Barrett,	Democratic,	607	820	370	222	536	555	380	3,490
William E. Rogers,	{ Progressive Republican	573	270	751	782	961	1,190	1,567	6,094
Charles A. Vaughn,		....	....	....	....	....	1	....	1
Charles H. Vaughn,		....	....	1	....	....	....	....	1
Blank,		178	143	100	134	139	239	263	1,196
REGISTER OF DEEDS.									
J. Frank Facey,	Democratic,	583	797	341	193	501	518	292	3,225
Thomas Leighton, Jr.,	Republican,	418	224	589	570	707	853	1,114	4,475
Albin M. Richards,	Progressive,	225	123	236	274	327	469	636	2,290
Blank,		132	89	56	101	101	145	168	792
SHALL THE PROPOSED AMENDMENT TO THE CONSTITUTION, MAKING WOMEN ELIG- IBLE TO APPOINTMENT AS NOTARIES PUBLIC, BE APPROVED AND RATIFIED ?									
Number of "Yes" votes,		460	368	512	435	635	760	957	4,127
Number of "No" votes,		573	551	502	466	698	819	818	4,427
Blank,		325	314	208	237	303	406	435	2,228
SHALL THE PROPOSED AMENDMENT TO THE CONSTITUTION, AUTHORIZING THE REF- ERENDUM, BE APPROVED AND RATIFIED ?									
Number of "Yes" votes,		685	666	672	601	889	1,108	1,255	5,876
Number of "No" votes,		230	146	216	188	295	306	335	1,716
Blank,		443	421	334	349	452	571	620	3,190
"SHALL CHAPTER 807 OF THE ACTS OF NINETEEN HUNDRED AND THIRTEEN BEING AN ACT TO PROVIDE FOR COM- PENSATING LABORERS, WORKMEN AND MECHANICS FOR INJURIES SUSTAINED IN PUBLIC EMPLOYMENT, AND TO EXEMPT FROM LEGAL LIABILITY COUNTIES AND MUNICIPAL CORPORATIONS WHICH PAY SUCH COMPENSATION, BE ACCEPTED BY THE INHABITANTS OF THIS COUNTY ?"									
Number of "Yes" votes,		802	770	748	660	972	1,178	1,319	6,449
Number of "No" votes,		216	150	223	187	318	325	353	1,772
Blank,		340	303	251	291	356	482	538	2,561

The following is a statement of the votes cast in the several wards of the city for the candidates for the various offices, and on the questions of granting licenses for the sale of intoxicating liquors and on acceptance of act relative to vacations of members of fire departments, in this city, at the city election held December 9, 1913:—

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
MAYOR.									
Zebedee E. Cliff,	Republican,	520	295	470	532	712	881	1,314	4,724
John Herbert,	Citizens,	661	665	529	443	734	764	604	4,400
James H. Maguire,		....	1	....	....	....	....	....	1
John W. Hamilton,		....	....	....	1	....	....	....	1
John J. Ryan,		....	....	....	....	1	....	....	1
Joseph F. Sharkey,		....	....	....	....	1	....	....	1
Emil Veecks,		....	....	....	....	....	1	....	1
Z. E. Cliff,		....	....	....	....	....	....	1	1
Blank,		74	38	18	17	15	24	13	199
ALDERMAN-AT-LARGE, WARD 1.									
William Fleming,	Republican,	541	216	592	625	843	938	1,369	5,124
John J. Wood,	Democratic,	657	654	342	239	502	517	376	3,287
W. H. Flynn,		....	....	..	....	....	1	....	1
Blank,		57	129	83	129	118	214	187	917
ALDERMAN-AT-LARGE, WARD 2.									
Peter F. Donnelly,	{ Citizens,	554	663	344	245	524	519	385	3 234
George W. Pratt,	{ Democratic,	528	257	594	590	805	923	1,328	5,025
Blank,	Republican,	173	79	79	158	134	228	219	1,070
ALDERMAN-AT-LARGE, WARD 3.									
Oscar W. Coddling,	Republican,	624	331	717	650	945	1,008	1,476	5,751
J. P. Broderick,		....	....	1	....	....	....	....	1
David Murphy,		....	....	1	....	....	....	....	1
Joseph R. Phillips,		....	....	....	....	1	....	....	1
John J. Ducey,		....	....	....	....	1	....	....	1
John J. Murphy,		....	....	....	....	....	1	....	1
John T. A. Webster,		....	....	....	....	....	1	....	1
Edward P. Roache,		....	....	....	....	....	....	1	1
Blank,		631	668	298	343	516	659	456	3,571
ALDERMAN-AT-LARGE, WARD 4.									
Joseph Hillson,	{ Democratic,	688	494	672	718	976	1,068	1,389	6,005
Charles Leo Shea,	{ Republican,	....	....	....	....	1	....	....	1
Meddie W. Brown,		....	....	....	....	1	....	....	1
P. H. Ryan,		....	....	....	....	1	....	....	1
Robert T. Ramsey,		....	....	....	....	....	1	....	1
Blank,		567	505	345	275	384	601	543	3,220
ALDERMAN-AT-LARGE, WARD 5.									
Fred E. Durgin,	Republican,	595	308	661	649	1,036	1,032	1,428	5,709
John W. Hamilton,		....	..	....	....	1	....	....	1
Charles F. Ross,		....	....	....	....	1	....	....	1
Edward F. Trefren,		....	....	....	....	....	1	....	1
Blank,		660	691	356	344	425	637	504	3,617

CANDIDATE.	PARTY.	WARDS.							TOTAL.
		1	2	3	4	5	6	7	
ALDERMAN-AT-LARGE, WARD 6.									
William F. Bennett,	{ Citizens,	547	596	372	287	541	595	441	3,379
David H. Fulton,	{ Democratic,	475	218	530	542	741	954	1,224	4,684
Bernard J. Sheridan,	Republican,	.....	.....	.....	.....	1	.....	.....	1
Blank,		233	185	115	164	180	121	267	1,265
ALDERMAN-AT-LARGE, WARD 7.									
John A. Breen,	Citizens,	445	551	354	232	509	517	477	3,085
Joseph H. Perry,	Republican,	495	198	533	552	739	854	1,326	4,697
Blank,		315	250	130	209	215	299	129	1,547
WARD ALDERMEN, (2) WARD 1.									
Alrik A. Hanson,	Republican,	1,255	.....	.....	.....	.....	.....	.....	1,255
J. Edward Hatch,	Republican,	507	.....	.....	.....	.....	.....	.....	507
William T. McCarthy,	{ Citizens,	502	.....	.....	.....	.....	.....	.....	502
Patrick J. Sullivan,	{ Democratic,	645	.....	.....	.....	.....	.....	.....	645
Blank,	{ Citizens,	152	.....	.....	.....	.....	.....	.....	152
WARD ALDERMEN (2) WARD 2.									
Robert C. Harris,	Democratic,	.....	759	.....	.....	.....	.....	.....	759
Alfred J. Toomey,	Democratic,	.....	743	.....	.....	.....	.....	.....	743
Blank,		.....	496	.....	.....	.....	.....	.....	496
WARD ALDERMEN (2) WARD 3.									
William F. Barker,	Republican,	.....	.....	544	.....	.....	.....	.....	544
Robert J. Farrell,	Republican,	.....	.....	581	.....	.....	.....	.....	581
Frank E. Ross,	Citizens,	.....	.....	354	.....	.....	.....	.....	354
John T. A. Welch,	{ Citizens,	.....	.....	360	.....	.....	.....	.....	360
Blank,	{ Democratic,	.....	.....	195	.....	.....	.....	.....	195
WARD ALDERMEN (2) WARD 4.									
William H. Andrews,	Republican,	.....	.....	.....	519	.....	.....	.....	519
Edwin Connell,	Republican,	.....	.....	.....	490	.....	.....	.....	490
Elmer B. Cutler,	Citizens,	.....	.....	.....	278	.....	.....	.....	278
James Hurley,	{ Citizens,	.....	.....	.....	418	.....	.....	.....	418
Blank,	{ Democratic,	.....	.....	.....	281	.....	.....	.....	281
WARD ALDERMEN (2) WARD 5.									
William G. Cummings,	Republican,	.....	.....	.....	.....	841	.....	.....	841
Herman A. Fleming,	Republican,	.....	.....	.....	.....	825	.....	.....	825
Peter J. Lombard,	Democratic,	.....	.....	.....	.....	577	.....	.....	577
Thomas F. Ronayne,	Democratic,	.....	.....	.....	.....	422	.....	.....	422
John J. Ducey,		.....	.....	.....	.....	1	.....	.....	1
Blank,		.....	.....	.....	.....	260	.....	.....	260
WARD ALDERMEN (2) WARD 6.									
James A. Butler,	Republican,	.....	.....	.....	.....	.....	891	.....	891
Frank J. Eigabroadt,	Citizens,	.....	.....	.....	.....	.....	441	.....	441
Albert E. Hughes,	{ Citizens,	.....	.....	.....	.....	.....	731	.....	731
Arthur W. Robinson,	{ Democratic,	.....	.....	.....	.....	.....	866	.....	866
Blank,	Republican,	.....	.....	.....	.....	.....	411	.....	411

CANDIDATE.	PARTY.	WARDS.							TOTAL.
		1	2	3	4	5	6	7	
WARD ALDERMEN (2) WARD 7.									
Eugene M. Carman,	Republican,	....	....	....	...	....	....	1,374	1,374
William P. French,	Republican,	....	....	....	....	....	....	1,473	1,473
William C. Stickle,		....	....	....	....	....	....	1	1
Blank,		....	....	....	....	....	....	1,016	1,016
SCHOOL COMMITTEE(2 yrs.) WARD 1.									
James J. Rudd,	Republican,	538	....	....	....	....	....	....	538
Mary G. Whiting,	{ Citizens,	722	....	....	....	....	....	....	722
Blank,	{ Democratic,	74	....	....	....	....	....	....	74
SCHOOL COMMITTEE(2 yrs.) WARD 2.									
Daniel H. Bradley	Democratic,	....	760	....	....	....	....	...	760
Blank,		....	239	....	....	....	....	....	239
SCHOOL COMMITTEE(2 yrs.) WARD 3.									
Frances M. Weeks,	Citizens,	....	....	489	....	....	....	....	489
George E. Whitaker,	Republican,	....	....	557	....	....	..	....	557
Blank,		....	....	75	...	....	....	....	75
SCHOOL COMMITTEE(2 yrs.) WARD 4.									
Harry A. Stone,	Republican,	....	....	....	743	....	....	....	743
Blank,		....	....	....	265	....	....	....	265
SCHOOL COMMITTEE(2 yrs.) WARD 5.									
Henry H. Folsom,	Republican,	....	....	....	....	1,076	....	....	1,076
John A. Kyte,	{ Citizens,	....	....	...	....	680	....	....	680
Blank,	{ Democratic,	....	....	....	....	75	....	...	75
SCHOOL COMMITTEE(2 yrs.) WARD 6.									
Guy E. Healey,	Republican,	....	....	....	....	....	1,112	....	1,112
Walter M. Smith,	{ Citizens,	....	....	....	....	....	818	....	818
Blank,	{ Democratic,	....	....	....	....	....	91	....	91
SCHOOL COMMITTEE(2 yrs.) WARD 7.									
Clarence W. Williams,	Republican,	....	....	....	....	....	....	1,659	1,659
Blank,		....	....	....	....	....	....	358	358
SHALL LICENSES BE GRANTED FOR THE SALE OF INTOXICAT- ING LIQUORS IN THIS CITY?									
Number of "Yes" votes,		464	485	250	160	344	378	267	2,348
Number of "No" votes,		701	411	721	757	1,065	1,201	1,575	6,431
Blank,		90	103	46	76	51	91	90	550
SHALL CHAPTER 487 OF THE ACTS OF 1913, ENTITLED "AN ACT RELATIVE TO THE PROMOTION OF CALL MEN IN THE FIRE DE- PARTMENTS OF CITIES AND TOWNS," BE ACCEPTED BY THIS CITY?									
Number of "Yes" votes,		602	443	570	486	723	982	1,055	4,861
Number of "No" votes,		375	385	251	273	432	322	364	2,402
Blank,		278	171	196	234	308	366	513	2,066

	WARDS.							TOTAL.
	1	2	3	4	5	6	7	
SHALL CHAPTER 807 OF THE ACTS OF NINETEEN HUNDRED THIRTEEN, BEING AN ACT TO PROVIDE FOR COMPENSATING LABORERS, WORKMEN AND MECHANICS FOR INJURIES SUSTAINED IN PUBLIC EMPLOYMENT, AND TO EXEMPT FROM LEGAL LIABILITY COUNTIES AND MUNICIPAL CORPORATIONS WHICH PAY SUCH COMPENSATION, BE ACCEPTED BY THE INHABITANTS OF THIS CITY OF SOMERVILLE?								
Number of "Yes" votes,	789	657	590	536	877	1,024	1,088	5,561
Number of "No" votes,	168	117	205	191	271	246	326	1,524
Blank,	298	225	222	266	315	400	518	2,244
SHALL THIS CITY ACCEPT THE PROVISION OF SECTION FORTYTWO OF CHAPTER FIVE HUNDRED AND FOURTEEN OF THE ACTS OF THE YEAR NINETEEN HUNDRED AND NINE, AS AFFECTED BY CHAPTER FOUR HUNDRED AND NINETY-FOUR OF THE ACTS OF THE YEAR NINETEEN HUNDRED AND ELEVEN, WHICH PROVIDES THAT EIGHT HOURS SHALL CONSTITUTE A DAY'S WORK FOR CITY OR TOWN EMPLOYEES?								
Number of "Yes" votes,	803	720	614	583	885	1,097	1,068	5,770
Number of "No" votes,	185	82	212	186	306	248	405	1,624
Blank,	267	197	191	224	272	325	459	1,935

Liquor License Question.

The following is a statement of the votes, during the several years of its submission to the people, on the question of granting licenses for the sale of intoxicating liquors, in this city, together with the number of registered voters and the estimated population for each year:—

YEAR.	YES.	NO.	BLANK.	REGISTERED VOTERS.	ESTIMATED POPULATION
1881	979	1,222		3,678	26,000
1882	627	1,159		3,778	26,500
1883	767	1,343		4,407	27,000
1884	806	1,709		4,470	28,000
1885	428	1,604		3,969	*29,992
1886	214	1,321		4,089	32,000
1887	555	2,427		4,574	34,000
1888	744	2,456		5,399	36,000
1889	635	1,706	335	5,286	39,000
1890	999	2,282	409	5,556	*40,117
1891	1,054	2,598	279	5,938	43,000
1892	1,427	3,288	347	7,587	46,000
1893	1,547	2,654	218	7,943	48,000
1894	1,098	2,869	246	8,007	50,000
1895	1,854	4,708	459	8,410	*52,200
1896	1,466	3,680	332	9,379	54,000
1897	1,626	3,815	486	8,925	56,000
1898	1,595	3,501	486	8,657	57,500
1899	1,892	3,340	374	8,838	60,000
1900	1,660	3,427	321	9,620	*61,643
1901	1,579	3,295	374	9,499	63,500
1902	1,645	3,242	360	10,100	65,000
1903	2,248	4,410	550	11,346	67,000
1904	2,022	4,338	447	11,682	69,500
1905	2,483	4,660	531	11,340	*69,272
1906	2,193	5,204	582	11,571	70,000
1907	1,735	4,591	459	11,558	74,000
1908	1,780	4,760	491	12,777	75,500
1909	1,830	4,601	530	12,479	75,500
1910	1,544	3,968	365	12,522	*77,236
1911	2,193	4,841	492	13,226	80,000
1912	2,421	6,182	546	13,854	81,000
1913	2,348	6,431	550	13,417	82,000

* Census.

ORDINANCES.

Somerville, January 1, 1914.

The following ordinances have been adopted since the printing of the annual reports for the year 1912:—

No. 47.

An Ordinance Relative to Garages.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. The exterior and interior walls of every garage for more than two automobiles shall be constructed of fireproof materials.

Every garage for less than three automobiles may be of wood frame construction if the exposed inner surfaces of walls and roof throughout are covered with non-combustible material satisfactory to the inspector of buildings, and if so constructed shall be not less than five feet from the line of the adjoining lot and not less than ten feet from any other building.

The exterior wall of every garage, if said wall has a window or any other opening, shall be constructed at least ten feet from any other building.

Every garage shall be provided with a system of ventilation satisfactory to the inspector of buildings. The floors of every garage shall be of concrete, granolithic or asphalt. Every garage shall have a roof of non-combustible, or fire-resisting material satisfactory to the inspector of buildings. No method other than electric lighting shall be used to light any garage. No fire shall be made or maintained in the same room with an automobile, motor car or other vehicle hereinafter described or in any place directly connected with said room.

The use and occupation of every garage shall be subject to such further restrictions and regulations as the board of aldermen shall impose.

This ordinance shall apply to every garage hereafter constructed and to every building hereafter used as a garage and not so used at the passage of this ordinance.

By the word "garage" is meant a building in which an automobile, motor car or other vehicle charged with or containing a volatile inflammable liquid for fuel or power is kept, whether said automobile, motor car or other vehicle is kept for use, for sale, for rental, for exhibition, for demonstrating or for any other purpose, and whether temporarily or regularly.

By the words "volatile liquid" is meant any liquid that will emit inflammable vapor at a temperature below one hundred degrees Fahrenheit when tested in open air.

Section 2. Any person who shall violate any provision of this ordinance shall be liable to a penalty of not more than twenty dollars for each offense.

Section 3. This ordinance shall take effect upon its passage.

Approved May 3, 1913.

No. 48.

An Ordinance Concerning Ashes and Offal.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. The following rules relative to the collection of ashes, rubbish and garbage are hereby established and shall be observed:—

A. Ashes, floor sweepings, sawdust, glass, shells, metals, tin cans, and other non-combustible waste things must be kept free from the things mentioned in paragraphs B. and C., and on the day for collection be placed on the outer edge of the sidewalk in suitable receptacles not larger than an ordinary flour barrel.

B. Paper, rags, cloth, leather, straw, excelsior, and similar things must be kept free from the things mentioned in paragraphs A. and C., and on the day for collection be placed on the outer edge of the sidewalk in suitable receptacles or packages, so secured that they will not be blown about or scattered in handling.

C. Garbage, table waste, vegetables, meats, fruit, fish, bones, fat and similar things must be kept free from the things mentioned in paragraphs A. and B. in suitable covered receptacles on the premises of the owner.

Collections will not be made by the city unless the foregoing provisions are complied with.

Earth, gravel, brick, mortar, stones, lime, plaster, cement, concrete, refuse materials from repairs or construction of buildings, refuse materials from manufacturing and business establishments, dead animals, and ashes other than those accumulated from the burning of coal, wood or other fuel for heating or domestic purposes will not be collected by the city.

Fruit tree trimmings, vine cutting, and yard cleanings will be collected only during the spring and summer months.

Section 2. This ordinance shall take effect upon June 1, 1913.

Approved May 3, 1913.

Ordinance No. 49.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section 12 of Chapter 20 of the Revised Ordinances of 1911 is hereby amended by striking out the word "twelve" and inserting in place thereof the word "fourteen," so that said section shall read as follows:—

Section 12. The cellar of every building where the grade or nature of the ground requires shall be sufficiently protected from water and dampness by a bed at least two inches thick over the whole, of concrete cement and gravel, tar and gravel or asphalt, or by bricks laid in cement. No cellar or basement floor of any building shall be constructed below the grade of fourteen feet above mean low water; provided, however, that the inspector of buildings may authorize cellars, no parts of which are to be used as living or sleeping rooms, to be constructed so much below said grade as he may designate. All metal foundations and all constructional ironwork underground shall be protected material approved by the inspector of buildings.

Section 2. This ordinance shall take effect December 1, 1913.

Approved October 14, 1913.

No. 50.**An Ordinance to Amend Chapter XXVII of the Revised Ordinances of 1911.**

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section 3 of Chapter XXVII of the Revised Ordinances of 1911 is hereby amended by adding at the end of said section the following:—

To erect or use building for the storage of gasoline, \$1.00.

To keep open place of business on the Lord's day for the sale of ice cream, confectionery, soda water and fruit, \$5.00.

Section 2. This ordinance shall take effect upon its passage.

Approved October 25, 1913.

No. 51.**An Ordinance Creating a Planning Board.**

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Sect. 1. The planning board which this city is required to create under the provisions of chapter 494 of the acts of the legislature of Massachusetts for the year 1913 shall be composed of seven residents of this city. Women as well as men shall be eligible to be members of the board.

Sect. 2. The members of the board shall be appointed as soon as this ordinance takes effect, four to serve until the appointment and qualification of their successors in the year 1914, and three to serve until the appointment and qualification of their successors in the year 1915, and after such first appointment they shall be appointed yearly four in one year and three in the alternative year to serve for two years and until the appointment and qualification of their successors. Any vacancy shall be filled by appointment for the balance of the unexpired term.

Sect. 3. The board shall by viva voce choose a chairman and a secretary. The secretary shall not be a member of the board and may receive such compensation as the board may determine.

Sect. 4. This ordinance shall take effect upon its passage.

Approved November 19, 1913.

No. 52.**An Ordinance Concerning Hawkers and Pedlers.**

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section 1 of Chapter XXIX of the Revised Ordinances of 1911 is hereby amended to read as follows:—

No hawker or pedler shall expose for sale or sell any of the articles enumerated in section 15 of chapter 65 of the Revised Laws as amended by chapter 345 of the Acts of the Legislature of Massachusetts of the year 1906 unless he has caused to be recorded his name and place of residence with the board of health and unless he has been assigned a number by said board and unless he holds in his possession at all times while he exposes for sale or sells as aforesaid a valid certificate of such record issued by said board.

A fee of \$1 shall be paid said board for the certificate.

All certificates shall expire and cease to be valid at 12 o'clock noon on the first day of May annually. Said certificate shall be exhibited by him whenever requested by a police officer, or the sealer of weights and measures, or any agent or member of the board of health. He shall procure from the sealer of weights and measures a certificate that all weights, measures and balances used by him have been properly inspected and sealed, and the presence on the team, cart or person of said hawker or pedler of unsealed weights, measures or balances shall render his certificate void.

Sect. 2. This ordinance shall take effect upon its passage.

Approved December 27, 1913.

FREDERIC W. COOK,

City Clerk.

JURY LIST OF THE CITY OF SOMERVILLE.

Prepared by the Registrars of Voters, June 30, 1913.

A

Abbot, Edward D., 71 Craigie st., Painter.
Adam, George, Jr., 5-a Evergreen ave., Wood carver.
Adams, Charles L., 26-a Aberdeen rd., Salesman.
Adcock, John H., 205 Highland ave., Plumber.
Alberty, George W., 74 Bay State ave., Manager.
Aldrich, Carl G., 25 Warner st., Jewelry manufacturer.
Alexander, William, Jr., 234 Pearl st., Machinist
Allen, Frank E., 60 Elm st., Advertising agent.
Allen, Harry G., 16 Chester pl., Salesman.
Amees, Albert F., 17 Russell st., Stationer.
Ames, Daniel E., 75 Berkeley st., Assistant manager.
Anderson, Guy R., 72 Broadway, Salesman.
Anderton, William R., 6 Henry ave., Collector.
Andrews, Clifford W., 91 Highland rd., Manager.
Anthonv, Charles P., 14 Professors row, Musician.
Appel, Charles A., 65 Willow ave., Manager.
Applin, Frank E., 31 Quincy st., Machinist.
Armstrong, Byron T., 14 New Cross st., Clerk.
Armstrong, Frank E., 91 Summer st., Manager.
Arnold, Dwight W., 110 Perkins st., Plumber.
Arnold, Martin M., 27 Lexington ave., Salesman.
Ashton, Albert C., 33 Columbus ave., Manufacturer.
Ashworth, Fred N., 104 Cross st., Manufacturer.
Atkinson, G. Murray, 10 Heath st., Carpenter.
Atkinson, Thomas, 69 Highland rd., Superintendent.
Atwood, William J., 375 Medford st., Clerk.

B

Babbitt, Eugene, 207 Highland ave., Farmer.
Babcock, Irving L., 36 Lowden ave., Stock keeper.
Bacon, Clarence L., 112 Thurston st., Superintendent.
Bacon, Frederic F., 9 Crocker st., Foreman.
Bacon, Oliver, 19 Pembroke st., Accountant.
Bailey, Alfred J., 361 Somerville ave., Helper.
Bailey, Stanton C., 50-r College ave., Pressman.
Baker, Albert V., 8 Brastow ave., Manager.
Baker, Charles T., 93 Munroe st., Violin teacher.
Baker, Tennyson L., 22 Hall st., Clerk.
Baker, Thaddeus W., 162 Albion st., Cutter.
Baldwin, Warren J., 82 Mt. Vernon st., Bookkeeper.
Barclay, Harry J., 31 Ossipee rd., Foreman.
Barker, Samuel S., 91 Oxford st., Salesman.
Barnes, Edmund K., 34 Lexington ave., Chemist.
Barr, Clarence W., 35 Cambria st., Chauffeur.
Barry, Patrick, 46 Wyatt st., Laborer.
Bartlett, Albert K., 8 Delaware st., Clerk.
Bartlett, George I., 32 Franklin st., Salesman.
Barrett, Rufus G., 115 Cedar st., Printer.
Barton, Walter E., 15 Vinal ave., Salesman.
Basso, John, 203 Holland st., Real estate dealer.
Beck, Vere F., 36 Rush st., Foreman.

Beebee, Frank J., 171 College ave., Manufacturer.
Beeden, Henry M., 68 Mt. Pleasant st., Car inspector.
Bell, James B., 28 Sycamore st., Manager.
Bellows, George M., 611 Broadway, Salesman.
Benjamin, George H., 40 Burnside ave., Road master.
Bennett, Alfred R., 90 Wallace st., Decorator.
Bennett, George H., 15 Prichard ave., Machinist.
Benson, Henry A., 13 Pleasant ave., Driver.
Benton, Forest T., 47 Cherry st., Salesman.
Berry, Arthur W., 53 Hudson st., Carpenter.
Berry, Charles A., 23 Cutter ave., Salesman.
Berton, John F., 154 Morrison ave., Painter.
Beverly, Ralph E., 160 Walnut st., Real estate dealer.
Bigley, William J., 157 College ave., Manager.
Billings, Harry E., 11 Sargent ave., Shipper.
Binney, Edward A., 39-a Walnut st., Real estate agent.
Binnie, John W., 16 Grant st., Marine engineer.
Bishop, Arthur W., 14 Ames st., Salesman.
Bixby, Charles M., 72 Elm st., Grocer.
Bjornson, Henry L., 86 Morrison ave., Estimator.
Blair, J. Roland, 240 Highland ave., Clerk.
Blake, Arthur W., 131 Josephine ave., Merchant.
Blake, Charles S., 19 Banks st., Jeweler.
Blake, William J., 80 Partridge ave., Mailer.
Blanchard, John B. S., 162 Walnut st., Bookkeeper.
Bliss, Winthrop R., 66 Putnam st., Clerk.
Boland, Martin F., 33 Ossipee rd., Druggist.
Boodry, George R., 26 Josephine ave., Stereotyper.
Booth, William G., 51 College ave., Artist.
Bossen, Charles N., 59 Derby st., Machinist.
Bountin, David T., 216 Broadway, Foreman.
Boutelle, Frank L., 8 Mt. Vernon st., Clerk.
Boutwell, Marcus N., 203 School st., Cashier.
Bowen, Lorenzo W., 16 Broadway, Real estate dealer.
Bowers, Charles E., 19 Stickney ave., Salesman.
Boyce, John, 112 Woodstock st., Machinist.
Boyd, Ernest H., 37 Spencer ave., Gas inspector.
Boyer, George R., 29 Wigglesworth st., Carpenter.
Brackett, Charles S., 163 Walnut st., Merchant.
Brackett, James F., 36 Fosket st., Salesman.
Bremner, John A., 48 Bow st., Storekeeper.
Brennan, James C., 41 Derby st., Carpenter.
Brewer, George C., 170 Summer st., Broker.
Brindley, George, 1 Hayden ter., Machinist.
Britton, Byron B., 21 Conwell st., Clerk.
Broadhead, Wm. H., 86 School st., Hennery proprietor.
Brockhaus, Oscar W., 65 Pearson ave., Machinist.
Brophy, Patrick J., 27 Brook st., No occupation.
Brown, Alexander R., 84 Line st., Lather.
Brown, Allan F., 29 Summer st., Clerk.
Brown, Charles H., 51 Main st., Clerk.
Brown, Frederic H., 26 Preston rd., Manager.
Brown, George Edgar, 31 Simpson ave., Salesman.
Brown, Herbert A., 140 Central st., Carpenter.
Brownell, Harlow C., 43 Curtis st., Clerk.
Browning, Louis P., 156-a Linden st., Foreman.
Bryant, Edgar S., 31 Bradley st., Undertaker.
Bryant, Oliver S., 29 Aberdeen rd., Foreman.
Buckley, Cornelius S., 9 Tufts st., Metal worker.
Buker, Lubert M., 250 Broadway, Mechanic.

Bullard, Albert W., 24 Howe st., Printer.
Bullard, Elbridge A., 21 Kidder ave., Slate dealer.
Bullard, Walter H., 22 Stickney ave., Clerk.
Bullen, William J., 42 Henderson st., Motorman.
Burke, Michael J., 337 Lowell st., Real estate agent.
Burns, Andrew J., 103 Porter st., Clerk.
Burns, Jeremiah A., 17 Kingman rd., Station master.
Burroughs, Hamlin E., 83 Munroe st., Salesman.
Burton, Ralph H., 17 Waldo st., Painter.
Buttimer, Edward M., 351 Lowell st., Builder.

C

Cahill, Denis J., 7-A Austin st., Real estate dealer.
Caldwell, Charles F., 5 Hancock st., Furniture dealer.
Calkin, John B., 30 Irving st., Printer.
Callaghan, Eugene F., 63 Poplar st., Brakeman.
Callaghan, Thomas J., 35 Rossmore st., Yardmaster.
Cameron, George B., 170 Powder House blvd., Builder.
Cameron, John B., 41 Ware st., Tailor.
Campbell, George C., 31 Jaques st., Foreman.
Campbell, George S., 17 Windsor rd., Foreman.
Campbell, John W., 169 Highland ave., Paint dealer.
Campbell, William B., 4 Benedict st., Tinsmith.
Carlton, Oscar M., 7 Putnam st., Machinist.
Carpenter, George O., 92 Highland ave., Salesman.
Carr, Eugene P., 18 Benton rd., Manufacturer.
Carr, Roy W., 130 College ave., Confectioner.
Carrick, Samuel P., 271 Medford st., Editor.
Carrigan, John J., 272 Beacon st., Glass cutter.
Carter, Charles E., 12 Grand View ave., Motorman.
Carter, George E., 21 Kenneson rd., Harness maker.
Caseau, Victor A., 17 Charnwood rd., Manager.
Casey, William F., 53 Beacon st., Machinist.
Casey, William H., 28 Bartlett st., Merchant.
Cassidy, John E., 19 Winter st., Inspector.
Cates, Gleason B., 77 Winslow ave., Driver.
Caverly, Irvin C., 32 Chandler st., Automobile dealer.
Challis, Harry A., 20 Fellsway West, Salesman.
Chamberlain, Charles L., 62 Cross st., Car inspector.
Chandler, Harry S., 45 Jaques st., Superintendent.
Chapin, Alonzo B., 11 Mystic st., Collector.
Chapman, Edward W., 14 James st., Wood-worker.
Chase, Leon C., 10 Dearborn rd., Broker.
Cheney, Frederick E., 11 Oakland ave., Grocer.
Cheney, Oscar E., 19 Crocker st., Inspector.
Chisholm, J. Albert, 105 Bromfield rd., Engineer.
Choate, Melville E., 63 Walnut st., Agent.
Christie, Alexander B., 159 Glen st., Teamster.
Clark, Alton L., 22 Bonner ave., Plumber.
Clark, Charles W., 21 Westminster st., Salesman.
Cleland, Frederic E., 101 Highland ave., Pressman.
Clough, Merrill J., 14 Aldrich st., Printer.
Cobb, Joseph W., 6 Crescent st., Checker.
Collins, Orrin S., 27 Craigie st., Carpenter.
Conant, John B., 189 Summer st., Manufacturer.
Conohan, William J. G., 60 Mt. Vernon st., Supt.
Cook, Harry P., 22 Sewall st., Driver.
Cooper, John M., 40 Nashua st., Laborer.
Corbett, Andrew T., 28 Beacon st., Laborer.

Corliss, Alfred, 22 Knapp st., Provision dealer.
 Corson, Harold E., 119 Bartlett st., Butter merchant.
 Cotter, John, 17 Hathorn st., Foreman.
 Cowan, John F., 332 Summer st., Printer.
 Coyle, David J., 43 Mansfield st., Shipper.
 Coyle, George N., 66 Pearl st., Coal dealer.
 Crampton, Arthur W., 45 Mason st., Bookkeeper.
 Crawford, James A., 26 Eastman rd., Carpenter.
 Crenner, Bartlett P., 61 Adams st., Leather merchant.
 Crocker, Albion B., 51 Madison st., Clerk.
 Crocker, Charles F., 42 Curtis st., Grocer.
 Crocker, David W., 42 Curtis st., Automobile dealer.
 Cronin, John J., 47 Bow st., Painter.
 Cross, Edward M., 52 Liberty ave., Clerk.
 Cross, Hervey L., 14 Belknap st., Clerk.
 Crossman, Frank N., 16 Moore st., Builder.
 Crowell, Austin, 77 Columbus ave., Tailor.
 Crowell, Cutler C., 85 Benton rd., Printer.
 Crowne, Michael, 51 Ibbetson st., Meat cutter.
 Croy, Frank J., 67 Beacon st., Teamster.
 Crumley, Herbert D., 67 Alpine st., Chemist.
 Cummings, Cecil H., 19 Robinson st., Salesman.
 Cummings, Frederick O., 9 Virginia st., Clerk.
 Cummings, Walter L., 19 Cross st., Engraver.
 Cunio, Joseph, 78 Park st., Repair man.
 Curtis, Harry W., 33 Fenwick st., Advertising agent.
 Custer, William N., 73 Bay State ave., Bookkeeper.

D

Daggett, Charles H., 90 Bromfield rd., Chemist.
 Dallas, Joseph J., 230 Broadway, Secretary.
 Dalton, Charles H., 82 Holland st., Clerk.
 Dalton, James H., 39 Hall ave., Grocer.
 Daly, Charles E., 6 Joy st., Clerk.
 Danforth, William E., 84 Highland ave., Clerk.
 Danielson, Alfred O., 9 Dana st., Clerk.
 Darby, Frederick S., 48 Mystic st., Foreman.
 Dardis, John F., 307 Washington st., Salesman.
 Daugherty, Paul C., 108 Central st., Music teacher.
 Davenport, Howard H., 86 Munroe st., Treasurer.
 Davis, Henry C., Jr., 88 Powder House blvd., Book'p'r.
 Davis, James, 402 Highland ave., Grocer.
 Davis, Maurice L., 22 Dover st., Salesman.
 Davison, George H., 18 Mossland st., Electrotyper.
 Davison, George Melville, 59 Victoria st., Machinist.
 Davison, G. Houston, 15 Giles pk., Moulder.
 Dawson, Howard, 70 Albion st., Clerk.
 Day, John, 100 Fremont st., Musician.
 Dean, James E., 77 Jaques st., Assistant superintendent.
 Deering, Frank B., Jr., 35 Derby st., Receiving clerk.
 Dellea, John J., 26 Otis st., Teamster.
 Delorme, George F., 29 Trull st., Nickel plater.
 Deneski, Peter J., 115 Museum st., Engineer.
 Denvir, George H., 197 Summer st., Clerk.
 DeRocher, Frank A., 100 Albion st., Iron worker.
 Despeaux, George W., 46 Burnside ave., Collector.
 Dexter, Alonzo P., 58 Main st., Produce dealer.
 Dingwell, Nathan M., 24 Charnwood rd., Foreman.
 Dixon, David J., 27 Prichard ave., Painter.
 Dobinson, William J., 22 Greene st., Photo engraver,

Dodge, Waldo E., 9 Boston ave., Insurance agent.
Dode, William J., 22 Bartlett st., Telephone inspector.
Doherty, Cornelius A., 15-a Cross st., Milk man.
Doherty, George L., 169 Washington st., Undertaker.
Doherty, Joseph J., 8 Hathorn st., Foreman.
Doherty, Neil A. F., 41 Springfield st., Plumber.
Donnell, Eugene D., 112 Packard ave., Real estate agent.
Donnelly, James A., 946 Broadway, Newspaper man.
Donnelly, James F., 121 Heath st., Laborer.
Donaldson, Charles A., 153 Glen st., Machinist.
Donovan, Francis X., 37 Ossipee rd., Electrician.
Donovan, John J., 474 Medford st., Clerk.
Dooling, David H., 306 Washington st., Painter.
Doughty, Hartley L., 131 Glen st., Harness maker.
Douglass, Herman F., 40 Derby st., Cutter.
Doyle, Charles T., 7 Laurel ave., Salesman.
Doyle, Mathew J., 11 Windsor rd., Provision dealer.
Draper, Edward, 33 Farragut ave., Janitor.
Drew, Frank M., 18 Park ave., Inspector.
Drew, W. Edward, 21 Endicott ave., Bookkeeper.
Drouet, E. Charles, 66 Walnut st., Real estate dealer.
Dudley, Joseph A., 42 Lowden ave., Bookkeeper.
Duell, Garth H., 27 Howe st., Cutter.
Duffy, John W., 82 Line st., Foreman.
Duggan, John P., 12 Edmands st., Cabinet worker.
Duhig, John M., 34 Highland ave., Printer.
Duncan, William A., Jr., 22 Tenney ct., Undertaker.
Dunham, Harry A., 496 Medford st., Merchant.
Durell, Ralph B., 131 Highland ave., Clerk.
Dwyer, James A., 48 Atherton st., Provision dealer.
Dyer, Charles W., 23 Wigglesworth st., Carpenter.
Dyer, Harris N., 23 Wigglesworth st., Brakeman.
Dykeman, William A., 60 Marshall st., Architect.

E

Earle, Clarence E., 318 Summer st., Printer.
Eaton, Arthur W., 12 Westminster st., Salesman.
Eccleston, Charles P., 50 Pinckney st., Janitor.
Edgerly, Clarence E., 208 Morrison ave., Artist.
Edgerly, Frank C., 17 Veazie st., Milk dealer.
Edgerton, Earle B., 7 Tower st., Editor.
Edmond, George A., 27 Gilman ter., Machinist.
Edson, Charles A., 9 Dana st., Confectioner.
Edwards, Edward H., 10 James st., Chiropodist.
Edwards, Edward H. Jr., 10 James st., Chiropodist.
Edwards, Waldo G., 134 Powder House blvd., Estimator.
Egan, Augustine F., 38 Pinckney st., Stenographer.
Egerton, Charles S., 63 Boston st., Merchant.
Egge, William H., 175 School st., Die sinker.
Eldridge, George W., 89 Lowell st., Ice-cream maker.
Eldridge, Osmond P., 227 Pearl st., Clerk.
Elie, Rudolph F., 35 Fenwick st., Clerk.
Elkins, Edward J., 30 Maple st., Teamster.
Elliott, Waldo F., 28 Grant st., Bookkeeper.
Ellison, Leroy A., 11 Craigie ter., Cableman.
Elwell, Edwin L., 23 Perry st., Machinist.
Elwin, Ernest D., 26 Brook st., Conductor.
Emerson, John M., 22 Arthur st., Clerk.
Emery, Everett C., 45 Prescott st., Weigher.
Epps, Charles A., 25 Cedar st., Grocery clerk.

Eubanks, Frederick T., 8 Cherry st., Druggist.
 Evans, Charles F., 167 Linwood st., Painter.
 Evans, Harrison L., 39 Packard ave., Broker.
 Ewing, Joseph A., 296 1/2 Broadway, Clerk.

F

Fairbairn, Edward J., 9 Brook st., Sign hanger.
 Fairhurst, Thomas, 24 Russell rd., Agent.
 Fales, Silas P., 120 Central st., Salesman.
 Farley, Charles H., 298 Highland ave., Bookkeeper.
 Farmer, Luke W., 92 Thurston st., Treasurer.
 Farnsworth, Handley C., 38 Veazie st., Laundryman.
 Farr, William I., 179 Albion st., Cabinetmaker.
 Farragher, Warren F., 69 Bay State ave., Chemist.
 Farrar, Willard S., 12 Adams st., Insurance agent.
 Farrell, Bernard M., 27 Austin st., Mariner.
 Farrell, Joseph, 156 Walnut st., Produce dealer.
 Fay, Arthur H., 14 Mansfield st., Lather.
 Fay, William Smith, 22 Lowden ave., Cashier.
 Fellows, Fred A., 14 Acadia pk., Salesman.
 Felt, Irwin S., 36 Bay State ave., Lunchroom proprietor.
 Felt, Jonathan B., 41-b Gilman st., Salesman.
 Fenton, Thomas J., 32 Ossipee rd., Clerk.
 Fermoye, William J., 16 Wesley st., Painter.
 Fickinger, Frank A., 21 Packard ave., Broker.
 Field, Paul M., 52 Hall ave., Stenographer.
 Fillebrown, Arthur M., 15 Buckingham st., Machinist.
 Fillmore, Willard P., 19 Conwell st., Mill hand.
 Fish, Benjamin F., 24 Boston st., Harness maker.
 Fish, Delos D., 57 Packard ave., Builder.
 Fiske, Benjamin H., 104 Gilman st., Painter.
 Fitch, George B., 19 Dow st., Tailor.
 Fitch, Nathan H., 21 Wheeler st., Salesman.
 Fitz, Charles E., 43 Thurston st., Manager.
 Fitzgerald, Edward F., 33 Bradley st., Clerk.
 Fitzgerald, Edward P., 41 Ossipee rd., Advertising agent.
 Fitzpatrick, James J., 32 Calvin st., Salesman.
 Flaherty, Walter L., 38 Pinckney st., Teamster.
 Fleming, William, 73 Florence st., Printer.
 Fletcher, Francis E., 17 Kidder ave., Fruit broker.
 Flint, Lester E., 22 Dover st., manager.
 Fogerty, John F., 118 Bartlett st., Foreman.
 Foster, John B., 66 Irving st., Artist.
 Foster, Willie F., 56 Curtis st., Bookkeeper.
 Fowler, Frank L., 181 Powder House blvd., Printer.
 Foy, James F., 26 Bartlett st., Cigar packer.
 Ford, Patrick J., 184 Somerville ave., Foreman.
 Francis, J. Arthur, 100 Broadway, Salesman.
 Fraser, Daniel F., 26 Clark st., Clerk.
 Frazee, John Anslie, 15 Oxford st., Artist.
 French, James M., 60 Adams st., Ticket agent.
 Frisbie, Percy C., 75 Ossipee rd., Broker.
 Frost, Thomas, 47 Pearl st., Foreman.
 Frye, Daniel M., 222 Highland ave., Secretary.
 Fryer, John J., 29 Hall ave., Bookkeeper.
 Fuller, Charles W., 35 Montrose st., Machinist.
 Fuller, George F., 20 Park ave., Produce dealer.
 Fuller, Samuel B., 77 Moreland st., Checker.
 Fyfe, Charles S., 14 Albion st., Shirt maker.

G

Gage, B. Raymond, 43 Evergreen avenue, Ticket agent.
 Gage, Sewall J., 96 Sycamore st., Collector.
 Gammon, Lawrence C., 7 Pearl street pl., Driver.
 Garland, Charles T., 158 Pearl st., Coal dealer.
 Garratt, Russell Newton, 47 Mason st., Salesman.
 Garrett, Frank R., 226 Elm st., Grocer.
 Gazeley, Arthur E., 94 Marshall st., Assistant secretary.
 Geary, John F., 14 Ellsworth st., Lineman.
 Geary, Michael A., 48 Holyoke rd., Cigar maker.
 Geddes, James, 88 Munroe st., Manager.
 Gibby, Adam H., 200 Summer st., Electrician.
 Gibby, Frank L., 42 Montrose st., Clerk.
 Gibby, S. James, 42 Montrose st., No occupation.
 Gilbert, Charles L., 10 Powder House blvd., Merchant.
 Gilbert, Eugene F., 67 Atherton st., Machinist.
 Gilbert, Frank A., 84 Lexington ave., Druggist.
 Gilbert, Osgood A., 162 Sycamore st., Ship broker.
 Gilbert, Victor E., 81 Bromfield rd., Insurance broker.
 Gillis, Daniel B., 27 Willow ave., Builder.
 Gilmore, Solon E., 39 Crocker st., Undertaker.
 Gissler, Ernest L., 97 Beacon st., Clerk.
 Glenn, John, 12 Putnam st., Salesman.
 Glover, Ellis H., 36 Tufts st., Salesman.
 Godfrey, Walter J., 14 Harvard pl., Painter.
 Goebel, John W., 90 Pearson ave., Manager.
 Golden, Isaac, 9 Crown st., Manager.
 Good, Richard Y., 30 Brastow ave., Paint dealer.
 Goodwin, Charles O., 54 Benton rd., Salesman.
 Gordon, Harry W., 88 Ossipee rd., Clerk.
 Gordon, John F., 410 Medford st., Superintendent.
 Goss, William E., 30 Oxford st., Draughtsman.
 Goudie, Alexander, 49 Marshall st., Painter.
 Gould, William T., 65 Pearson ave., Operator.
 Gove, George H., 14 Wesley st., Civil engineer.
 Grace, William B., 85-a Partridge ave., Merchant.
 Grady, Dennis, 358 Lowell st., Tailor.
 Grant, Richard W., 67 Boston st., Clerk.
 Graves, David B., 68 Josephine ave., Clothing dealer.
 Graves, Frank W., 27 Winslow ave., Car inspector.
 Gray, Joseph S., 264 Broadway, Driver.
 Green, J. Rush, 11 Cambria st., Manufacturer.
 Green, William F., 15½ Pearson ave., Pressman.
 Greene, Frederick A., 203 Pearl st., Real estate dealer.
 Grenfell, Richard T., 26 Prichard ave., Machinist.
 Gridley, Jos., 179 Highland ave., Restaurant proprietor.
 Grindell, Henry H., 47-a Porter st., Machinist.
 Griswold, Charles W., 18 Landers st., Electrician.
 Grover, Nelson H., 26 Oxford st., Salesman.
 Groves, Leander F., 9 Eastman rd., Plumber.
 Guilford, Harry E., 5 Joy street pl., Machinist.

H

Haddow, Charles, 104 Prospect st., Stationary engineer.
 Hadley, Norris E., 35 Conwell ave., Draughtsman.
 Haff, George L., 20 Wesley st., Clerk.
 Hager, John M., 27 Walter st., Milk dealer.
 Haines, Alonzo M., 63 Berkeley st., Agent.
 Haley, Daniel F., 42 Bow st., Real Estate agent.

Haley, Joseph A., 7 Linden st., Printer.
 Hall, Frederic D., 26 Dartmouth st., Electrician.
 Hall, George G., 89 Cross st., Printer.
 Hall, Harley E., 22 Pleasant ave., Stable keeper.
 Hall, Roy, 100 Conwell ave., Shipper.
 Hallett, George A., 26 St. James ave., Engineer.
 Hamilton, Alexander M., 219 Summer st., Wood carver.
 Hamilton, George L., 24 Spencer ave., Manager.
 Hamilton, John R., 224 Willow ave., Parcel agent.
 Hamilton, William, 24 Spencer ave., Druggist.
 Handy, Daniel N., 90 Oxford st., Clerk.
 Handy, Otis A., 11 Heath st., Printer.
 Haney, Joseph G., 31 Fountain ave., Teamster.
 Hanley, William F., 1 Beckwith cir., Salesman.
 Hanna, William F., 30 Fenwick st., Compositor.
 Harding, William F., 330-a Highland ave., Compositor.
 Hardy, Charles C., 19 Simpson ave., Machinist.
 Harlow, Hugh J., 9 Leon st., Engineer.
 Harmer, James T., 18 Adams st., Railroad president.
 Harmon, Charles H., 163 Willow ave., Salesman.
 Harrigan, Daniel F., 396-a Washington st., Laborer.
 Harrigan, David J., 38 Beacon st., Bookkeeper.
 Harrington, Arthur D., 26 Oak st., Salesman.
 Harris, John H., 33 Victoria st., Salesman.
 Harris, J. Roy, 20 Melvin st., Clerk.
 Hart, Charles J., 38 Bay State ave., Optician.
 Hart, Michael J., 16 Perry st., Foreman.
 Hartman, Walter, 146-a Medford st., Poultry dresser.
 Hartwell, Haywood, 77 Munroe st., Carpenter.
 Haskell, Albert L., 60 Putnam st., Printer.
 Hastings, Herbert A., 17 Pleasant ave., Car conductor.
 Hatch, Arthur E., 46 Browning rd., Pres. Dredging Co.
 Hatch, Crawford A., 6 Herbert st., Piano worker.
 Hatch, Selden L., 79 Benton rd., Teamster.
 Hathaway, William T., 27 Pearson rd., Bookkeeper.
 Hayden, Robert V., 29 Linden ave., Salesman.
 Hayes, Arthur E., 8 Otis st., Baker.
 Hayes, Harry E., 38 Whitfield rd., Electrician.
 Hayford, George E., 454 Medford st., Cigar maker.
 Hayford, T. Leslie, 12 Raymond ave., Secretary.
 Hayward, Frank H., 271 Willow ave., Salesman.
 Hayward, John G., 5 Windom st., Bookkeeper.
 Heald, Francis, 44 Spencer ave., Furnishings dealer.
 Hearsey, James W., 38 Ibbetson st., Salesman.
 Hedge, John F., 123 Albion st., machinist.
 Hemingway, Hermon S., 8 Oakland ave., Real estate dlr.
 Henderson, Charles P., 61 Rogers ave., Hatter.
 Henderson, Herbert L., 28 Billingham st., Hardware dlr.
 Henderson, Joseph J., 242 Summer st., Clerk.
 Herbst, Robert, 14 Flint st., Rubber worker.
 Herendeen, Walter S., 28 Waterhouse st., Inspector.
 Herrick, George W., 73 Mt. Vernon st., Coal dealer.
 Hibbard, John P., 19 Willoughby st., Optician.
 Higgins, Byron E., 243 School st., Mason.
 Higgins, Frederick A., 25 Berkeley st., Compositor.
 Higgins, Harrison P., 10 Waldo st., Engineer.
 Higgins, Joseph T., 35 Laurel st., Draftsman.
 Hill, Allen Philip, 155 Sycamore st., Harness dealer.
 Hill, Arthur B., 17 Norwood ave., Musician.
 Hills, Arthur T., 8 Teele ave., Real estate dealer.

Hills, William H., 41 Belmont st., Editor.
 Hoar, George F., 94 Conwell ave., Salesman.
 Hodge, Charles W., 26 Dillingham st., Accountant.
 Hodgkins, Edward S., 139 Orchard st., Salesman.
 Hoit, Edward P., 275 Highland ave., Fish dealer.
 Hoitt, Edward D., 32 Farragut ave., Bookkeeper.
 Holland, Charles J., 30 Aldrich st., Paper hanger.
 Holland, William L., 30 Aldrich st., Printer.
 Hollis, George O., 45 Marshall st., Milk striker.
 Holloway, Charles S., 34 Mason st., Shipper.
 Holmes, Frederick M., 22 Maple ave., Salesman.
 Holmes, Jacob R., 14 Hall st., Teamster.
 Holmes, Ralph N., 67 Lexington ave., Electrician.
 Holt, Arthur T., 41 Laurel st., Chauffeur.
 Holt, Harry E., 82 Ossipee rd., Salesman.
 Homer, George H., 36 Joy st., Furniture finisher.
 Honold, Kerman G., 38 Ossipee rd., Foreman.
 Hood, Charles H., 2 Benton rd., Milk contractor.
 Hooper, Harry A., 41 Munroe st., Bookkeeper.
 Hope, Frank L., 14 Belknap st., Superintendent.
 Hopkins, Charles O., Jr., 268 Willow ave., Clerk.
 Hopkins, James L., 104 Sycamore st., Music teacher.
 Hopkins, Willis F., 10 Lee st., Clerk.
 Horton, Clarence W., 48 Irving st., Artist.
 Horton, Joseph E., 118 Cross st., Mechanic.
 Hosmer, Ralph H., 51 Mt. Vernon st., Poultry dealer.
 Houghton, Edgar W., 20 Gilman ter., Foreman.
 Houghton, Edmund W., 19 George st., Teamster.
 Houghton, J. Clifton, 16 Walnut rd., Carpenter.
 Hovey, Charles N., 70 Josephine ave., Bookkeeper.
 Howard, Charles W., 54 Spring st., Provision dealer.
 Howard, Eugene P., 11 Hall ave., Salesman.
 Hoyt, Fred A., 73 Chandler st., Superintendent.
 Humphrey, Walter E., 50 Albion st., Clerk.
 Hunkins, Frank J., 23 Charnwood rd., Carpenter.
 Hunter, Robert B., 114 Rogers ave., Cableman.
 Hurn, George F., 7 Oakland ave., Upholsterer.
 Hutchins, Charles K., 24 Wesley st., No occupation.
 Huff, Wilbur S., 55 Bartlett st., Bookkeeper.
 Hughes, Charles W., 267 Highland ave., Painter.
 Hyde, Joseph W., 31 Sewall st., Clerk.

I

Inman, Allen C., 89 Josephine ave., Secretary.
 Ireland, George H., 597 Broadway, Blacksmith.
 Ivester, Joseph A., 52 Victoria st., Elevator man.

J

Jackson, Herbert, 10 Clifton st., Machinist.
 Jackson, William L., 27 College ave., Merchant.
 James, George F., 66 Mystic ave., Teamster.
 James, Williams B., 16 Westwood rd., manager.
 Jameson, William A., 57 Lowden ave., Notary public.
 Janes, George Francois, 63 Evergreen ave., Salesman.
 Jaques, George T., 43 Temple st., Teamster.
 Jardine, David T., 35 Fairmount ave., Carpenter.
 Jenness, Walter G., 103 Pearson ave., Lumber dealer.
 Jennings, Chester R., 22 Cedar st., Collector.
 Jensen, Harry J., 10 Wisconsin ave., Clerk.

Jelley, William J., 77-a Moreland st., Mechanics helper.
 Johnson, Arthur H., 128 Powder House blvd., Salesman.
 Johnson, August, 14 Belknap st., Painter.
 Johnson, LaForrest H., 209 Willow ave., Salesman.
 Johnson, John, 77 Pearl st., Stable keeper.
 Johnson, Robert A., 33 Teele ave., Gardener.
 Johnson, Thomas O., 396-a Washington st., Teamster.
 Johnson, Walter M., 48 Tennyson st., Clerk.
 Johnston, W. Perry, 77 Belmont st., Superintendent.
 Joiner, Alexander J. M., 90 Bartlett st., Manager.
 Jolley, Joseph H., 57 Bromfield rd., Manager.
 Jones, Fred B., 18 Bromfield rd., Manufacturer.
 Jones, Guy E., 208 Holland st., Pressman.
 Jones, James C., 39 Bartlett st., Ship fitter.
 Jordan, Fred W., 216 Elm st., Furniture mover.
 Joslin, Arthur B., 49 Francesca ave., Receiving teller.
 Joslyn, Will C., 37 Banks st., Salesman.
 Jouett, Fred C., 27 Chester st., Salesman.
 Justis, Albert Y., 10 Farragut ave., Shipper.

K

Kaula, Charles H., 38 Richdale ave., Salesman.
 Kauler, John E., 2 Austin st., Undertaker.
 Keach, Charles A., 34 Lowden ave., Bookkeeper.
 Keay, Fred E., 153 College ave., Financial writer.
 Keddy, Thomas A., 35 Josephine ave., Salesman.
 Keene, Charles H., 12-a Kensington ave., Foreman.
 Keger, Albert G., 34 Lowden ave., Clerk.
 Kessler, Frederick G., 34 Lowden ave., Contractor.
 Kelley, Charles F., 62 Highland ave., Salesman.
 Kelley, John B., 250 Willow ave., Operator.
 Kelley, Robert H., 962 Broadway, Printer.
 Kellogg, Herbert B., 104 Boston ave., Electrician.
 Kelly, George P., 8 Congress st., Teamster.
 Kelly, Joseph J., 24 Laurel st., No occupation.
 Kelly, Samuel H., 28 Cherry st., Painter.
 Kemp, Edward F., 457 Medford st., Manufacturer.
 Kendall, Edward J., 349 Summer st., Potato dealer.
 Kendall, Phillip S., 41 Russell st., Salesman.
 Kendall, Warren C., 186 Central st., Superintendent.
 Kennamon, Thomas W., 47 Main st., Teamster.
 Kennedy, James J., 43 Dartmouth st., Bookkeeper.
 Kenney, John J., 50 Waterhouse st., Mechanic.
 Kent, Benjamin F., 65 Rogers ave., Salesman.
 Keyes, Charles A., 6 Adams st., Butter merchant.
 Kidder, Charles A., 100 Central st., Salesman.
 Kilrain, John J., 13 Clyde st., Boxing instructor.
 Kilton, William F., 9 Upland pk., Salesman.
 Kimball, Frank E., 11 Miner st., Salesman.
 Kindred, Ralph H., 8 Ossipee rd., Salesman.
 King, Charles R., 9 Prospect Hill ave., Storekeeper.
 King, Guy F., 100 Pearson ave., Station agent.
 King, John W., 50 Hall ave., Electrotpe finisher.
 Kinney, Edgar L., 92 Sycamore st., Bookkeeper.
 Kinsman, William L., 2 Carver st., Carpenter.
 Knight, Perley H., 20 Preston rd., Printer.
 Knight, Thomas S., 114 Professors' Row, Inspector.
 Kramer, Everett A., 26 Madison st., Shipper.
 Kuhn, William H., 227 Summer st., Driver.
 Kyte, John A., 47 Main st., Druggist.

L

Lackey, Wells E., 12 Tennyson st., Newsdealer.
Ladd, George W., 14 Elston st., Blacksmith.
Lailer, Waldo H., 369 Medford st., Salesman.
Lakin, George W., 215 College ave., Stock dealer.
Lally, James J., 48 Florence st., Teamster.
Lamont, George H., 13 Conwell ave., Salesman.
LaMoure, William T., 74 Boston st., Agent.
Lamphear, Harry A., 170 Broadway, Motorman.
Land, Lawrence P., 60 Marshall st., Salesman.
Landers, Norman H., 48 School st., Manager.
Lane, Edward A., 20 Wyatt st., Clerk.
Lane, George B., 65 Bromfield rd., Manager.
Lane, William H., 24 Wheatland st., Teamster.
Langdon, Harry, 41 Sargent ave., Druggist.
Langley, Charles H., 430 Broadway, Clerk.
Laskey, Frank S., 25 Boston st., Manager.
Lavery, James H., 12 Tufts st., Brass worker.
Leathe, Arthur H., 254 Highland ave., Draperies dealer.
Leavitt, Frank W., 464 Somerville ave., Wagon mfr.
Lee, Harry S., 50 Madison st., Floor manager.
Leitch, Samuel, 93 Liberty ave., Clerk.
Leland, John D., 34 Irving st., Printer.
Lewis, Andrew R., 48 Kidder ave., Builder.
Lewis, Ernest L., 292 Highland ave., Checker.
Lewis, Horace A., 7 Medina Bldg., Elm st., Real est. agt.
Lewis, Wayland H., 15 Westwood rd., Treasurer.
Lheureux, Joseph N., 24 Garrison ave., Clerk.
Libby, Clarence J., 285 Medford st., Watchman.
Libby, Elmer R., 2 Medina Bldg., Elm st., Purchasing agt.
Libby, George R., 61 Hall ave., Stationer.
Liddell, Burton C., 32 Cedar st., Fireman.
Lincoln, Rollin T., 40 Harvard st., Broker.
Lindsay, Thomas, 14 Hathorn st., Foreman.
List, James G., 19 Tufts st., Gold beater.
Little, Wallace H., 33 Francesca ave., Restaurant prop.
Litchfield, Harry W., 181 Broadway, Milk dealer.
Littlefield, Thatcher E., 7-a Bay State ave., Lumber dlr.
Lloyd, William C., 104 Holland st., Clerk.
Locatelli, John E., 50 Lowell st., Contractor.
Locatelli, Louis C., 62 Ibbetson st., Bricklayer.
Locke, Albert V., 74 Bromfield rd., Manager.
Locke, George H., 22 Montrose st., Salesman.
Locke, Stephen S., 11 Prospect Hill ave., Produce dlr.
Lombard, John H., 15 Walnut rd., Printer.
Lombard, Peter J., 112 Thurston st., Teamster.
Long, Alonzo G., 96 Glenwood rd., Printer.
Long, Edward J., 22 Windom st., Motorman.
Long, John H., 113 School st., Teamster.
Lord, Delbert L., 91 Highland rd., Salesman.
Lord, Francis H., 45 Avon st., Salesman.
Lord, Guy M., 69 Chandler st., Optician.
Loring, Robert B., 45 Tennyson st., Treasurer.
Lothrop, Herbert A., 217 College ave., Printer.
Loveland, Charles M. N., 898 Broadway, Stenographer.
Lovell, Willard C., 51 Fairmount ave., Piano tuner.
Lovering, Robert N., 19 Chester ave., Cutter.
Lovering, Everett L., 48½ Prescott st., Piano tuner.
Low, Harry A., 62 Simpson ave., Clerk.
Lowell, Charles W., 53 Francesca ave., Produce dealer.

Lucy, Albert F., 3 Village st., Operator.
 Lunt, Fred E., 24 Hall ave., Teller.
 Lyford, Frank D., 20 Lincoln ave., Carpenter.
 Lyman, Harry H., 51 Putnam st., Storekeeper.
 Lynch, Bartholomew, 120 Walnut st., Assembler.
 Lynch, Philip, 52 Porter st., Conductor.
 Lynch, William P., 88 Avon st., Agent.

M

McAloney, George L., 56 Mt. Vernon st., Conductor.
 McAuliffe, Cornelius A., 107 Josephine ave., Manager.
 McCallar, Raymond L., 38 Electric ave., Insurance agt.
 McCarty, John J., 236 School st., Charcoal dealer.
 McCarthy, John J., 220 Summer st., Superintendent.
 McCray, William H., 11 Bowers ave., Salesman.
 McCulpher, Patrick F., 45 Union sq., Laundry agent.
 McDermott, Fred H., 9 Mt. Vernon st., Teamster.
 McDermott, William J., 12 Mossland st., Shipper.
 Macdonald, Eugene B., 9 Crocker st., Manager.
 MacDonald, Leo E., 85 Porter st., Draughtsman.
 MacDonald, William H., 29 Endicott ave., Clerk.
 McFarland, John A., 41 Burnside ave., Artist.
 McGovern, Patrick J., 49 Lowden ave., Engineer.
 McGowan, Patrick, 91 Marion st., Agent.
 McGregor, Thomas G., 20 Curtis st., Salesman.
 McHugh, William H., 12 Hill st., Salesman.
 McKay, Alexander, 36 Oak st., Grocer.
 McKenna, George F., 292 Lowell st., Undertaker.
 MacKenzie, Arthur G., 10 Burnside ave., Laundryman.
 McLain, George M., 38 Glen st., No occupation.
 McLean, James A., 30 Banks st., Foreman.
 MacMullin, George H., 9 Hancock st., Drug clerk.
 McNulty, William H., Jr., 360 Summer st., Cashier.
 Macomber, George A., 102 Thurston st., Manager.
 McPhail, Benjamin, 14 Mt. Pleasant st., Teamster.
 Maddison, Thomas B., 221 Morrison ave., Asst. Treas.
 Maddocks, John H., 17 Wallace st., Foreman.
 Magee, James L., 12 Central st., Foreman.
 Magoon, Frank P., 38 Madison st., Clerk.
 Magown, Herbert B., 14 Clark st., Clerk.
 Maguire, John F., 414 Medford st., Engraver.
 Mahan, John J., 27 Springfield st., Produce dealer.
 Makouski, John A., 19 Cambria st., Floor walker.
 Manning, Daniel F., 86 Gilman st., Clerk.
 Manning, Thomas F., 44 Highland ave., Clerk.
 Mansfield, Charles S., 8 Pinckney pl., Manager.
 Marcus, Harry, 48 Derby st., Merchant.
 Marden, Walter E., 25 Elston st., Salesman.
 Marsh, Ernest H., 27 Cutter st., Teamster.
 Marsh, George, 16 Powder House ter., Real estate dlr.
 Marsh, William H., 27 Cutter st., Teamster.
 Marshall, Arthur C., 75 Trull st., Clerk.
 Martin, Frank L., 120 Josephine ave., Warehouse man.
 Martin, James S., 16 Mt. Pleasant st., Painter.
 Martin, Richard E., 9 Atherton st., Machinist.
 Martis, Christopher H., 26 School st., Printer.
 Mason, Arthur F., 18 Hall ave., Manufacturer.
 Mason, Frank J., 30 Pembroke st., Bookkeeper.
 Mason, William S., 20 Austin st., Meat cutter.
 Masury, Walter R., 367 Somerville ave., Collector.

Maxim, William W., 59 Boston st., Merchant.
 Maxwell, Madison M., 22 Greenville st., Bookkeeper.
 Mayberry, Eugene R., 7 Cutter pk., Salesman.
 Mead, Adelbert F., 74 Chandler st., Bookkeeper.
 Meaney, Michael J., 8 Cross street pl., Mason.
 Mears, Edson P., 2½ Spring Hill ter., Paymaster.
 Melvin, Patrick C., 56 Elm st., Tailor.
 Mercer, William L., Jr., 342 Broadway, Insurance agt.
 Meriam, Marshall G., 9 Whitfield rd., Clerk.
 Merrill, Charles A., 18 Irving st., Clerk.
 Merrill, Walter I., 25 Montrose st., Salesman.
 Merrill, William G., 253 Willow ave., Electrician.
 Merritt, Robert H., 47 Cherry st., Purchasing agent.
 Miller, Samuel E., 42 Lowden ave., Inspector.
 Miller, Thomas, Jr., 24 Pleasant ave., Clerk.
 Mink, Edward, 85 Elm st., Electrician.
 Mitchell, George R., 25-a Jaques st., Marine engineer.
 Mitchell, Harold P., 83 Cedar st., Newsdealer.
 Moffat, D. Wilson, 61 Hall ave., Auditor.
 Molloy, Stephen J., 40 Concord ave., Core maker.
 Molloy, William P., 78 Newton st., Iron worker.
 Monahan, Charles A., 48 Washington st., Barrel dealer.
 Money, Joseph A., 54 Myrtle st., Manufacturer.
 Monks, Charles A., 398 Medford st., Clerk.
 Moran, Thomas F., 68 Roseland st., Salesman.
 Morang, Arthur C., 38 Cambria st., Salesman.
 Morgan, George H., 12 Sunnyside ave., Coffee roaster.
 Morley, Arthur P., 259 Willow ave., Stockman.
 Morrell, Elroy F., 6 Ellsworth st., Bookkeeper.
 Morrison, James, 62 Albion st., Salesman.
 Mortimer, Alfred C., 12 Lester ter., Machinist.
 Mosher, Nicholas I., 15 James st., Clerk.
 Moulton, Harold, 37 Warner st., Salesman.
 Muir, John M., 79 Marshall st., Hardware dealer.
 Mulcahy, John J., 80 Jaques st., Engineer.
 Muldoon, James J., 24 Putnam st., Manager.
 Mullen, George W., 19 Dell st., Clerk.
 Munroe, George F., 111 Rogers ave., Salesman.
 Murch, Elmer F., 55 Adams st., Reporter.
 Murdock, William L., 154 Morrison ave., Carpenter.
 Murphy, Benjamin F., 16 Mossland st., Typesetter.
 Murphy, Eugene J., 21 Oak st., Clerk.
 Murphy, Frank J., 215 Summer st., Clerk.
 Murphy, John B., 74 Jaques st., Barber.
 Murphy, Joseph H., 4 Thurston st., Clerk.
 Murphy, William F., 2 Bartlett st., Superintendent.
 Myers, Mark B., 15 Teele ave., Salesman.

N

Nelson, Freeman L., 38 Chester st., Machinist.
 Newell, Theodore B., 188 Lowell st., Bookkeeper.
 Newhall, Everett H., 121 Liberty rd., Chemist.
 Newhouse, George, 64 Bonair st., Truckman.
 Newton, Andrew R., 38 Ibbetson st., Druggist.
 Newton, William M., 84 Bay State ave., Bookkeeper.
 Nicholson, Bartlett T., 368 Highland ave., Salesman.
 Nickerson, Frank R., 47 Liberty ave., Clerk.
 Nickerson, Walter C., 41-b Franklin st., Newspaper man.
 Nickles, James W., 14 William st., Produce dealer.
 Niles, Franklin T., 229 Pearl st., Manager.

Nolan, Thomas N., 15 Mountain ave., Editor.
 Northrup, Oscar W., 8 Pleasant ave., Machinist.
 Norton, William J., 94 Conwell ave., Foreman.
 Noyes, Charles S., 3 Sargent ave., Cigar manufacturer.
 Noyes, Edward I. K., 27 Hall ave., Salesman.
 Nugent, John H., 109 Linwood st., Teamster.
 Nute, Alfred D., 329 Highland ave., Shoe worker.
 Nyman, Ernest D., 5 Wigglesworth st., Baggage mas.

O

O'Brien, Edward J., 267 Willow ave., Auditor.
 O'Brien, Edward M., 131 Central st., Clerk.
 O'Brien, John J., 8 Durham st., Smallwares dealer.
 O'Brien, William E., 70 Prospect st., Grocer.
 O'Brien, John J., 44 Vernon st., Finisher.
 O'Brien, William P., 36 Cutter st., Weigher.
 O'Brion, Fulton, 226 Summer st., No occupation.
 O'Connell, Daniel H., 343 Summer st., Clerk.
 O'Connell, Thomas Meade, 43 Highland rd., Shipper.
 O'Connor, J. Edward, 36-r Myrtle st., Teamster.
 O'Connor, Martin T., 500 Broadway, Receiving clerk.
 O'Donnell, James A., 44 Temple st., Hoisting engineer.
 O'Donnell, James V., 9 Mallett st., Engineer.
 O'Hea, Frank J., 482 Medford st., Paperhanger.
 Oldfield, Ernest W., 97 Perkins st., Foreman.
 O'Leary, Peter, 21 Pinckney st., Car inspector.
 Olson, Charles A., 21 Edmands st., Cashier.
 Olson, Otto, 741 Broadway, Builder.
 O'Malley, Walter, 23 Linden st., Engineer.
 O'Neil, John J., 7 Partridge ave., Clerk.
 O'Neil, Joseph L., 99 Pearson ave., Engineer.
 Ordway, Frank A., 271 Willow ave., Produce dealer.
 Osborn, Edgar W., 86 Porter st., Cement dealer.
 Osgood, Charles G., 22 Dover st., Coal dealer.
 Overing, Raymond C., 79 Conwell ave., Foreman.
 Owen, Frank M., 21 Victoria st., Pitman.
 Owler, Edward, 30 Browning rd., Salesman.
 Oxnard, John H., 156 School st., Clerk.

P

Paine, Arthur C., 91 Perkins st., Insurance agent.
 Parker, George M., 55 Sargent ave., Clerk.
 Parker, George S., 29 Josephine ave., Shipper.
 Parker, John H., 16 Chandler st., draughtsman.
 Parker, William H., 246 Broadway, Baker.
 Parkis, Henry J., 20 Belknap st., Manager.
 Partridge, Ashley W., 202 Summer st., Superintendent.
 Patterson, Arthur E., 32 Claremon st., Chemist.
 Patterson, William S., 99 School st., Carpenter.
 Peacock, Harold L., 10 Franklin st., Baggage master.
 Pearce, William L., 9 Josephine ave., Manager.
 Pearson, Albert L., 11 Teele ave., Electrical engineer.
 Pearson, Arthur G., 3 Sargent ave., Merchant.
 Pendleton, Sumner M., 41 Simpson ave., Bookbinder.
 Pennock, Nathan Lewis, 258 Willow avenue, Manager.
 Perkins, George H., 4 Essex st., Manager.
 Perkins, John H., 54 Mt. Vernon st., Clerk.
 Perkins, Roy M., 167-a Pearl st., Superintendent.
 Perry, Herbert W., 23 Electric ave., Clerk.

Perry, Percival D., 21 Highland ave., Salesman.
 Perry, William E., 69 Marshall st., Salesman.
 Peterson, Charles E., 15 Murray st., Bookkeeper.
 Peterson, Oscar C., 22 Newbury st., Salesman.
 Peterson, Peter M., 17 Cottage ave., Tailor.
 Petterson, John, 130 Cedar st., Carpenter.
 Phelps, George A., 222 Broadway, Printer.
 Phillips, Lorenzo R., 138 Powder House blvd., Foreman.
 Phillips, Edgar H., 450 Medford st., Salesman.
 Phillips, George W., 71 Hudson st., Salesman.
 Phillips, Joseph P., 6 Giles pk., Clerk.
 Phelps, William L., 405 Highland ave., Manager.
 Pickard, Elbridge A., 78 Chandler st., Grocer.
 Pickering, Leon D., 36 Madison st., Real estate dealer.
 Pickthall, Richard E., 182 Central st., No occupation.
 Pierce, Charles H., 13 Morgan st., Clerk.
 Pierce, William F., 15 Chester pl., Salesman.
 Pillsbury, Robert F., 22 Hamlet st., Clerk.
 Pincus, Joseph J., 41 Lexington ave., Manager.
 Piper, Hiram E., 16 Jaques st., Draftsman.
 Pitcher, Floyd J., 28 Preston rd., Draftsman.
 Pitcher, Redington, 1 Thurston st., Clerk.
 Pitman, J. Russell, 9 Lee st., Clerk.
 Plimpton, Franklin F., 151 Elm st., Superintendent.
 Plumer, William E., 197 Washington st., Hardware dlr.
 Plummer, Albert C., 20 Willow ave., Salesman.
 Pond, George R., 15 Charnwood rd., Reporter.
 Pond, George W., 91 Bay State ave., Cloth'g salesman.
 Porter, C. Frank, 34 Franklin st., Musician.
 Porter, James E., 13 Waterhouse st., Conductor.
 Post, George F., 7 Jay st., Foreman.
 Potter, Archie S., 6 Liberty ave., Stenographer.
 Potter, Eugene V., 157 Walnut st., Civil engineer.
 Powell, Frank A., 9 Columbus ave., Machinist.
 Prescott, Charles A., 5 Lexington ave., Printer.
 Prescott, Horace A., 411 Highland ave., Milk dealer.
 Prescott, Willard L., 19 Pearson rd., Clerk.
 Preston, William A., 179-a Pearl st., Shipper.
 Price, Elmer A., 35 Bartlett st., Manager.
 Pride, Edwin L., 9 Browning rd., Accountant.
 Priest, Wallace C., 10 Moore st., Accountant.
 Prior, Charles W., 23 Greene st., Electrician.
 Proctor, George Waldo, 44 Spring st., Grain dealer.
 Prouty, G. Edward, 205-a Summer st., Clerk.
 Puffer, Charles, 14 Dartmouth st., Fruit dealer.
 Pynn, Edward, 29 Ash ave., Show case maker.

Q

Quain, George M., 10 Morton st., Woolen dealer.
 Quigg, George F., 70 Holland st., Foreman.
 Quimby, Frank W., 309 Summer st., Stenographer.
 Quinn, Daniel C., 98 Elm st., Photo engraver.
 Quinn, John J., 7 Shawmut st., Foreman.
 Quinn, John W., 15 Oak st., Confectioner.

R

Ralph, Howard L., 66 Bromfield rd., Manager.
 Ralph, James E., 24 Bromfield rd., Clerk.
 Ralston, Robert S., 38-a Oliver st., Compositor.

Ramsey, Charles E., 79 Bay State ave., Auditor.
Rankin, Albert, 5 Irving st., Inspector.
Rapp, Henry W., 78 Fellsway West, Agent.
Rauh, George J., 31 Electric ave., Surveyor.
Rawles, Aaron B., 16 Broadway, Buyer.
Raymond, Charles R., 218 School st., Clerk.
Raymond, John M., 37 Jaques st., Bookkeeper.
Rayner, James E., 143 Sycamore st., Manager.
Read, Howard W., 53 Highland rd., Salesman.
Reardon, Patrick T., 96 Grant st., Fireman.
Reardon, Timothy J., 28 Bromfield rd., Produce dlr.
Redmond, Thomas E., 159-a Walnut st., Pressman.
Reed, John T., 9 Franklin st., Restaurant keeper.
Reed, Nathan P., 42 Browning rd., Salesman.
Rees, Warren C., 183 Willow ave., Inventor.
Reid, Thomas A., 101 Willow ave., Stock man.
Remick, Lewis H., 45 Josephine ave., Electrician.
Reynolds, James B., 4 Concord ave., Laborer.
Reynolds, James F., 7 Adams st., Insurance agent.
Reynolds, James J., 7 Adams st., Machinist.
Rhodes, Harry L., 275 Summer st., Manager.
Rice, Charles A., 33-c Dover st., Clerk.
Rice, Nathaniel P., 143 Summer st., Clerk.
Rich, Reuben D., 34 Grant st., Teamster.
Richards, Charles A., 16-a Hall st., Market man.
Richards, William P., 44 Day st., Architect.
Richmond, Charles, 7 Munroe st., Clerk.
Riley, Edward H., 110 Josephine ave., Bookkeeper.
Riley, Philip W., 55 Josephine ave., Pressman.
Rines, Amos, 7 Herbert st., Shipper.
Ringer, Thomas F., 61 Central st., Superintendent.
Ripley, Lawrence G., 48 Rogers ave., Piano tuner.
Rivers, Fred S., 35 Charnwood rd., Electrician.
Robbins, William T., 51 Jaques st., Teamster.
Roberts, Henry P., 769 Broadway, Composer.
Roberts, William H., 62 Chandler st., Clerk.
Robertson, Enoch B., 87 Highland rd., Bookkeeper.
Robie, Walter A. H., 227 Highland ave., Jeweler.
Robinson, Nathan, 475 Columbia st., Bottle dealer.
Robinson, Richard H., 18 Thorndike st., Coremaker.
Robinson, William H., 25 Simpson ave., Salesman.
Rockwell, Leonard W., 315-a Beacon st., Meat cutter.
Rockwood, Albert P., 68 Columbus ave., Stablekeeper.
Rodway, Charles B., 52 Morrison ave., Salesman.
Rogers, Andrew J., 25 Bay State ave., Sailmaker.
Rogers, Francis F., 95 Highland ave., Painter.
Rogers, Frank M., 11 Wilton st., Shipping clerk.
Rogers, Thomas H., 157 Beacon st., Shipper.
Rogers, William P., 25 Bay State ave., Sailmaker.
Rokes, Wesley A., 2 Aberdeen rd., Carpenter.
Rolfe, George H., 15 Lexington ave., Druggist.
Rollins, Edgar J., 18 Kidder ave., Real estate dealer.
Rooks, Julius R., 46 Highland rd., Fuel agent.
Rose, Edward, 127 Josephine ave., Seed dealer.
Ross, William H., 37 Laurel st., Real estate dealer.
Row, Frederick W., 463 Somerville ave., Motorman.
Rowell, Warren A., 99 Belmont st., Manager.
Rutherford, Harry W., 53 Webster st., Clerk.
Ryan, Charles E., 115 Cross st., No occupation.
Ryan, Joseph A., 33 Dickinson st., Electrician.

Ryan, Matthew J., 20 Columbus ave., Manager.
 Ryder, Howard F., 54 Francesca ave., Salesman.
 Ryder, James M., 135 Lowell st., Fish dealer.

S

Sanborn, J. Walter, 183 Central st., Merchant.
 Sargent, A. Eugene, 2 Sargent ave., Treasurer.
 Sargent, Charles W., 101 Rogers ave., Salesman.
 Sargent, Elmont W., 79 Mt. Vernon st., Salesman.
 Saunders, Alfred J., 24 Powder House ter., Bookkeeper.
 Savage, Sidney L., 49 Rogers ave., Electrical engineer.
 Savage, Walter F., 90 Conwell ave., Storekeeper.
 Saville, J. Freeman, 64 Sycamore st., Cigar dealer.
 Savory, Thomas C., 103 Belmont st., Salesman.
 Sawyer, Benjamin P., 42 Gibbens st., Druggist.
 Sawyer, Henry R., 10 Browning rd., Real estate dealer.
 Scanlon, Michael J., 70 Clarendon ave., Mason.
 Schraft, William E., 49 Belmont st., Chocolate mfr.
 Schroder, Charles F., Jr., 268 Summer st., Clerk.
 Scott, Elton H., 92 Cross st., Salesman.
 Scott, John Winfield, 35 Hawthorne st., Printer.
 Sears, Edward S., 130 College ave., Bookkeeper.
 Sears, George R., 19 Columbus ave., Clerk.
 Seaward, Daniel L., 35 Marshall st., Lineman.
 Senter, Arthur W., 62 Highland ave., Railroad supt.
 Seymour, Alfred A., 10 Brook st., Salesman.
 Sharkey, James F., 31 Thurston st., Manager.
 Shattuck, Ernest V., 59 Glen st., Meat cutter.
 Shay, James J., 68 Mt. Pleasant st., Manufacturer.
 Shea, David J., 2 Prospect pl., Machinist.
 Shea, John F., 15 Mortimer pl., Janitor.
 Shea, William A., 34 Rossmore st., Bookbinder.
 Shepard, Frederick E., 191 Broadway, Grain dealer.
 Sheridan, Bernard J., 86 Highland rd., Foreman.
 Sherman, Charles E., 92 Gilman st., Superintendent.
 Shirley, Percy E. S., 50 Vinal ave., Insurance agent.
 Sholes, Harry W., 10 Cypress st., Assistant shipper.
 Shull, Frederick G., 11 Ossipee rd., Salesman.
 Sillers, Charles M., 4 Aldrich st., Clerk.
 Simons, Frank M., 37 Columbus ave., Salesman.
 Simpson, Artemas D., 15 Lesley ave., Produce dealer.
 Skillings, J. Henry, 34 Burnside ave., Salesman.
 Slack, Clarence L., 9 Windsor rd., Salesman.
 Slade, Frank L., 29 Willow ave., Electrician.
 Slager, Charles A., 42 Ivaloo st., Builder.
 Slavin, James C., 148-r Linwood st., Laborer.
 Sleeper, Fred A., 11 Park ave., Auto supplies dealer.
 Sleeper, Fred., 66 Lexington ave., Claim agent.
 Sliney, Bernard L., 52 Oxford st., Agent.
 Smart, Percy O., 136 Holland st., Inspector.
 Smith, Anous J., 37 Moore st., Salesman.
 Smith, Armand J., 17 Rush ave., Engineer.
 Smith, Earl W., 80 Packard ave., Salesman.
 Smith, Edward P., 45 Josephine ave., Bookkeeper.
 Smith, Frank W., 43 Curtis st., Real estate agent.
 Smith, G. Frederick, 51 Webster st., Clerk.
 Smith, Lawrence B., 45 Madison st., Salesman.
 Smith, Leslie E. A., 16 Lincoln st., Driver.
 Smith, Perley L., 51 Russell, st., Jeweler.
 Smith, Percy C., 88 Irving st., Salesman.

Smith, Ralph W., 5 Avon st., Candy dealer.
 Smith, Richard C., 51 Main st., Clerk.
 Smith, Thomas, 54-r College ave., Cook.
 Snow, Edward L., 22 Temple st., Solicitor.
 Snow, Ernest F., 39 Pearson rd., Trimmer.
 Snow, Wallace H., 42 Derby st., Ice cream manufacturer.
 Snow, William A., 17 Francesca ave., Stable fittings dlr.
 Solomon, Frank L., 12 Berkeley st., Manufacturer.
 Souther, Charles E., 95 Kidder ave., Millinery dealer.
 Souther, Samuel C., 115 Belmont st., Clerk.
 Spaulding, Fred E., 80 Partridge ave., Shipper.
 Spear, Charles W., 22 Gibbens st., Manager.
 Sperring, Edward F., 92 Belmont st., Clerk.
 Spollett, Frederick W., 33 Lowden ave., Advertising agt.
 Spooner, John C., 23 Spencer ave., Printer.
 Sprague, Harry R., 18 Hancock st., Clerk.
 Seelig, Carl H., 69 Rush st., Machinist.
 Staples, Mendall G., 3 Pearl ter., Janitor.
 Stetson, Walter E., 13 Browning rd., Bookkeeper.
 Stevens, Albion M., 2 Jaques st., Optician.
 Stevens, Charles H., 10 Oakland ave., Butter dealer.
 Stevens, James H., 18 Melvin st., Superintendent.
 Stevenson, Charles W., 55 Grove st., Shipper.
 Stewart, Sidney M., 145 Orchard st., Supt.
 Stewart, Walter H., 145 Orchard st., Clerk.
 Story, William C., 50 Holvoke rd., Boxmaker.
 Strout, Frank W., 17 Flint st., Salesman.
 Sturtevant, George H., 64 Bow st., Salesman.
 Sullivan, Dennis F., 23 Packard ave., Reporter.
 Sullivan, Matthew W., 33 Joy st., Machinist.
 Sullivan, Nicholas M., 48 Tufts st., Milk dealer.
 Sutherland, Thomas W., 16 Highland ave., Supt.
 Sweeney, Eugene F., 111 Belmont st., Printer.
 Sweeney, Lawrence J., 31 Quincy st., Glass worker.
 Syer, Harry A., 16 Aberdeen rd., Doorman.

T

Taffee, Samuel E., 159 Morrison ave., Nurse.
 Taft, Fred S., 67 Columbus ave., Drug clerk.
 Talbot, Edwin R., 222 Medford st., Copyist.
 Tarbell, Charles J., 36 Lowden ave., Compositor.
 Tarbox, Edwin F., 30 Willoughby st., Yard master.
 Tarbox, French O. J., 51 Victoria st., Mechanic.
 Tarpey, Michael J., 23 Fremont st., Fireman.
 Taylor, Charles F., 36 Burnside ave., Salesman.
 Taylor, Ernest A., 15 Sargent ave., Brakeman.
 Taylor, Ralph E., 44 Meacham rd., Clerk.
 Temple, Harry W., 111-a Hudson st., Salesman.
 Terhune, Samuel L., Jr., 16 Banks st., Caterer.
 Thomas, Fred, 18 Madison st., Salesman.
 Thomas, Joseph M., 23 Stickney ave., Treasurer.
 Thompson, Alvah M., 134 Highland ave., Merchant.
 Thompson, Charles E., 237 School st., Music dealer.
 Thompson, George J., 55 Willow ave., Clerk.
 Thomson, Emerson, 18 Mystic st., Station agent.
 Thornquist, Carl Jacob, 100 Packard ave., Broker.
 Thurston, Ned F., 58 Bow st., Painter.
 Tibbetts, Harris P., 10 Evergreen ave., Carpenter.
 Toomey, Thomas E., 40 Beacon st., Salesman.
 Toppa, Arthur W., 209 Highland ave., Boat dealer.

Townsend, Walter S., 40 Teele ave., Clerk.
Treat, Frederick H., 306 Summer st., Salesman.
Trefry, Albert C., 65 Adams st., Telephone inspector.
Trefry, William S., 74-a Fremont st., Salesman.
Tripp, Walter E., 420 Broadway, Real estate agent.
Tripp, William A., 8 Pearl ter., Shipper.
Towne, Clarence E., 111 Thurston st., Clerk.
Truda, Frank S., 156 Lowell st., Musician.
Tucke, Archie J., 916 Broadway, Auditor.
Tufts, Charles R., 11 Clarendon ave., Motorman.
Tully, John J., 10 Landers st., Clerk.
Turbert, Francis, 37 Calvin st., Foreman.
Turner, George C., 251 School st., Salesman.
Turner, Walter F., 15 Highland rd., Salesman.
Tyrell, Benjamin F., 82 Albion st., Manufacturer.

U

Underwood, Louis F., 50 Meacham rd., Bookkeeper.
Union, William E., 11 Kingston st., Inspector.
Upton, Jesse B., 24 Bay State ave., Chief engineer.

V

Vannah, Chester A., 1196 Broadway, Engineer.
Van Ummersen, Richard, 97 Munroe st., Freight agent.
Varney, Charles A., 25 Teele ave., Clerk.
Ver Wiebe, Max C., 109 Highland ave., Agent.
Vigneaux, William H., 43 Mansfield st., Shipper.
Vincent, James N., 11 Lovell st., Stereotyper.
Vorce, Martin E., 29-A Putnam st., Storekeeper.

W

Wade, James H., 9 Spencer ave., Chief clerk.
Wadleigh, William Y., 65 Boston st., Grocer.
Wainwright, George T., 28 Mt. Pleasant st., Painter.
Wakefield, Chester K., 21 Flint st., Collector.
Waldron, Ralph D., 4 Lee st., Grocer.
Walker, Andrew R., 4 Florence st., Foreman.
Walker, Granville A., 9 Loring st., Painter.
Walker, George, 26 Wallace st., Salesman.
Walker, Harry R., 894 Broadway, Motorman.
Walker, Henry I., 5 Columbus ave., Shipping clerk.
Wallace, William E., 68 Glenwood rd., Interior decorator.
Wallace, William J., 411 Highland ave., Milk checker.
Wardrobe, George E., 31 Rogers ave., Druggist.
Wardwell, William H., 7 Jasner st., Salesman.
Waters, Leonard O., 50-R Chapel st., Salesman.
Watters, Robert D., 16 Ames st., Buyer.
Watts, Edwin S., 42 Calvin st., Drug clerk.
Watts, Frederick W., 11 Madison st., Salesman.
Watts, John H., 62 Pinckney st., Plumber.
Waugh, W. Whitney, 125 Highland rd., Salesman.
Webster, Alexander S., 77 Columbus ave., Pedler.
Weeks, Edward H., 67 Rush st., Stock clerk.
Weitz, August, 9 Hudson st., Salesman.
Welch, John T. A., 32 Prescott st., Mason.
Wells, George C., 31 Lexington ave., Clerk.
Wentworth, Edgar W., 329 Highland ave., Carriage mfr.
Wentworth, Walter E., 42 Belknap st., Superintendent.
West, A. Clifton, 152 Curtis st., Foreman.
West, William C., 11 Gilman ter., Bookkeeper.

Westcott, Frederick W., 16 Richardson st., Motorman.
 Weston, Thomas G., 1150 Broadway, Mechan. engineer.
 Wetherbee, Fred E., 152 Walnut st., Chief clerk.
 Weyand, Martin C., 14 Buckingham st., Carpenter.
 Wheeler, Frank A., 34 Evergreen ave., Bookkeeper.
 Whipple, William D., 74 Josephine ave., Clerk.
 Whitaker, William L., 5 Lexington ave., Foreman.
 White, Albert A., 43 Bow st., Manager.
 White, Carleton G., 124 Highland ave., Student.
 White, Charles S., 4-A Aberdeen rd., Printer.
 White, Edwin B., 33 Bay State ave., Bookkeeper.
 White, Frank H., 14 Montgomery ave., Map mounter.
 White, Joseph H. C., 118 Walnut st., Clerk.
 Whitman, Burton S., 26 Pearl st., Expressman.
 Whiting, Edward E., 67 Ossinee rd., Editor.
 Whittet, Rowland G., 120 Pearson rd., Dry goods dealer.
 Whittier, Henry F., 30 Delaware st., Clerk.
 Wiggin, Albert L., 13 Knapp st., Millinery dealer.
 Wilbur Moses F., 227 Morrison ave., No occupation.
 Wiley, Henry C., 75 Thurston st., Broker.
 Williams, Ralph E., 45 Marshall st., Clerk.
 Williamson, William F., 114 Cross st., Foreman.
 Williston, Belvin T., 3 Monmouth st., Mechan. engineer.
 Willoughby, George T., 113 Central st., Carpenter.
 Willwerth, William F., 61 Webster ave., Laborer.
 Wilson, J. Albert Jr., 52 Brastow ave., Musician.
 Wilson, Harry A., 34 Tower st., Foreman.
 Wilson, James C., 45 Grove st., Manager.
 Winslow, George H., 95 Liberty ave., No occupation.
 Wisdom, Arthur E., 84 Avon st., Clerk.
 Withington, Henry A., 189 Summer st., Clerk.
 Wolf, John Jr., 13 Fosket st., Provision dealer.
 Wolfe, Harold C., 25 Jaques st., Stenographer.
 Wolfe, William, 107 Hudson st., Car inspector.
 Wood, Frank H., 286 Summer st., Real estate agent.
 Wood, George A., 40 Laurel st., Lumber dealer.
 Wood, George T., 11 Union st., No occupation.
 Wood, Percy O., 150 Powder House blvd., Salesman.
 Woods, Frank W., 34 Myrtle st., Inspector.
 Woodward, Leonard S., 52 Dartmouth st., Bookkeeper.
 Worcester, Paul J., 7 Russell rd., Druggist.
 Wyman, George A., 20 Brastow ave., Mechanic.
 Wyman, Harry E., 18 Tower st., Salesman.

Y

Yates, W. Dudley, 22 Powder House ter., Supt.
 Yeomans, James E., 8 Ellsworth st., Inspector.
 Young, Charles E., 41 Webster st., Clerk.
 Young, G. Thornton, 34 Belknap st., Draughtsman.
 Young, Herbert L., 43 Quincy st., Clerk.
 Young, William E., 1101 Broadway, druggist.

CHARLES P. LINCOLN, Chairman,
 EDWIN D. SIBLEY,
 DOUGLASS B. FOSTER,
 FREDERIC W. COOK,
 Board of Registrars of Voters.

CITY GOVERNMENT AND OFFICERS FOR 1913.

Mayor.

Charles A. Burns,
27 Thurston Street.

Board of Aldermen.

President, FRANK R. DUNKLEE.

Vice-President, LEOD MACLEOD.

WARD ONE.

William H. Smith, Alderman-at-large	16 Mystic street
Ernest F. Flagg	137 Medford street
William T. McCarthy	27 Shawmut street

WARD TWO.

George A. Wilson, Alderman-at-large	32 Springfield street
Alfred J. Toomey	18 Linden street
Robert C. Harris	63 Newton street

WARD THREE.

Frank R. Dunklee, Alderman-at-large,	5 Prospect Hill avenue
Oscar W. Coddington	21 Pleasant avenue
Robert J. Farrell	21 Avon street

WARD FOUR.

Leod MacLeod, Alderman-at-large . .	13 Wesley street
Joseph Hillson	13 Edmands street
Edwin Connell	150 Pearl street

WARD FIVE.

Charles A. Draper, Alderman-at-large	442 Broadway
William G. Cummings	82 Thurston street
Fred E. Durgin	52 Albion street

WARD SIX.

Fred W. Jackson, Alderman-at-large	166 Lowell street
David H. Fulton	599½ Somerville avenue
Arthur W. Robinson	118 Highland road

WARD SEVEN.

Joseph H. Perry, Alderman-at-large	8 Kenwood street
Eugene M. Carman	56 Pearson road
William P. French	13 Thorndike street

City Clerk—FREDERIC W. COOK.

Assistant City Clerk—HOWARD E. WEMYSS.

Regular meetings, second and fourth Thursday evenings of each month, at 8 o'clock, except when such Thursday is a holiday, in which case the meeting is held on the preceding Tuesday evening.

Standing Committees of the Board of Aldermen.

ELECTRIC LINES AND LIGHTS—Aldermen Wilson, Hillson, Flagg, Robinson and Durgin.

FINANCE—The President, Aldermen Smith, MacLeod, Perry, Jackson, Cummings and Harris.

LEGISLATIVE MATTERS—Aldermen MacLeod, Toomey, Fulton, McCarthy and Carman.

LICENSES AND PERMITS—Aldermen Toomey, Farrell, Hillson, McCarthy, Durgin, Robinson and Carman.

PUBLIC PROPERTY—Aldermen Perry, Coddington, Jackson, Cummings and Harris.

PUBLIC SAFETY—Aldermen Draper, Flagg, Farrell, French and Connell.

PUBLIC WORKS—Aldermen Smith, Coddington, Wilson, Draper, Fulton, French and Connell.

School Committee.

Chairman.—HENRY H. FOLSOM.

Vice-Chairman.—GEORGE C. MAHONEY.

(Term, two years, except members ex-officiis.)

CHARLES A. BURNS, Mayor (ex-officio), 27 Thurston street.

FRANK R. DUNKLEE, President Board of Aldermen (ex-officio), 5 Prospect Hill avenue.

WARD ONE.

MARY G. WHITING (elected 1911), 61 Mt. Vernon street.

THOMAS KELLEY (elected 1912), 8 Rush street.

WARD TWO.

DANIEL H. BRADLEY (elected 1911), 19 Concord avenue.

THOMAS M. CLANCY (elected 1912), 52 Springfield street.

WARD THREE.

GEORGE E. WHITAKER (elected 1911), 75 Walnut street.

ALBERT C. ASHTON (elected 1912), 33 Columbus avenue.

WARD FOUR.

CHARLES A. KIRKPATRICK, JR. (elected 1911), 27 Sewall street, resigned September 4, 1913.

HARRY A. STONE (elected September 25, 1913), 254 Broadway.

MARTIN P. HOGAN (elected 1912), 255 Broadway.

WARD FIVE.

HENRY H. FOLSOM (elected 1911), 103 Central street.

HERBERT A. MACDONALD (elected 1912), 5 Norwood avenue.

WARD SIX.

FREDERICK A. P. FISK (elected 1911), 44 Cherry street.

MARY R. BREWER (elected 1912), 170 Summer street.

WARD SEVEN.

GEORGE C. MAHONEY (elected 1911), 97 College avenue.

HERBERT CHOLERTON (elected 1912), 94 College avenue.

Superintendent and Secretary—CHARLES S. CLARK.

Office, City Hall Annex.

Hours: 8 A. M. to 5 P. M., except Saturdays;

Saturdays, 8 to 10 A. M.

Regular meetings, last Monday evening of each month, except July and August, when none are held, and December, when meetings are on the fourth Friday, and on the Friday preceding the first Monday in January.

Assessors.

(Term, three years.)

GEORGE E. ELLIOTT, Chairman (term expires 1914).

NATHAN H. REED (term expires 1915).

WINSOR L. SNOW (term expires 1915).

HARRY VAN IDERSTINE (term expires 1914).

J. ROBERT FENELON (term expires 1916), appointed March 13, 1913.

Assistant Assessors.

(Term, one year.)

FRED B. CLAPP.

JOHN FRANKLIN STACKPOLE.

GEORGE I. CANFIELD.

JAMES WILSON.

WILLIAM E. COPITHORNE.

WILLIAM H. WALLACE.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Board of Health.

(Term, two members, two years; one member, one year.)

WESLEY T. LEE, M. D., Chairman (term expires 1914).

WILLIAM P. FRENCH (term expires 1913), resigned January 9, 1913.

JACKSON CALDWELL (term expires 1915).

JOHN A. BLASER (term expires 1914), appointed March 13, 1913.

Clerk, Laurence S. Howard.*Agent*.—CALEB A. PAGE.*Medical Inspector*.—FRANK L. MORSE, M. D.*Inspector of Animals and Provisions*.—CHARLES M. BERRY.*Inspector of Milk and Vinegar*.—HERBERT E. BOWMAN.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Overseers of the Poor.

Office, City Hall Annex.

(Term, three years.)

HENRY F. CURTIS, M. D., Chairman (term expires 1916).

ALBERT W. EDMANDS (term expires 1914).

PHILIP KOEN (term expires 1915).

Agent.—CHARLES C. FOLSOM.*Secretary*.—CORA F. LEWIS.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Registrars of Voters.

(Term, three years.)

CHARLES P. LINCOLN, Chairman (term expired 1913).

EDWIN D. SIBLEY (term expires 1915).

DOUGLASS B. FOSTER (term expires 1914).

FREDERIC W. COOK, City Clerk (term expires 1914).

Public Library Trustees.

(Term, three years.)

THOMAS M. DURELL, Chairman (term expires 1916).

J. FRANK WELLINGTON (term expires 1914).

FREDERICK W. PARKER (term expires 1915).

WILLIAM L. BARBER (term expires 1916).

CHARLES L. NOYES (term expires 1914).

FREDERICK W. HAMILTON (term expires 1915), resigned January 23, 1913.

JOHN M. WOODS (term expires 1915), appointed February 27, 1913.

GEORGE WHITING (term expires 1914).

WILLIAM H. DOLBEN (term expires 1915).

W. DUDLEY YATES (term expires 1916).

Librarian and Secretary.—DREW B. HALL.Library open 9 A. M. to 9 P. M., and the reading room Sundays,
2 to 6 P. M.**Planning Board.**

Appointed December 30, 1913.

MALCOLM E. STURTEVANT, Chairman (term expires 1915).

WILLIAM H. SMITH (term expires 1915).

CHARLES F. MAGUIRE (term expires 1915).

MRS. BARBARA GALPIN (term expires 1914).

CHARLES J. CORWIN (term expires 1914).

CHARLES E. GODFREY (term expires 1914).

WARREN C. BLAIR (term expires 1914).

City Clerk.

FREDERIC W. COOK.

Assistant City Clerk.—HOWARD E. WEMYSS.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

City Treasurer and Collector of Taxes.

JOSEPH S. PIKE.

Office open: 8 A. M. to 2 P. M.; Saturdays, 8 A. M. to 12 M.

City Messenger.

FRED E. HANLEY.

Mayor's Secretary.

FRED E. WARREN.

City Solicitor.

FRANK W. KAAH,
50 State street, Boston.

City Auditor.

CLARENCE T. BRUCE.

City Engineer.

ERNEST W. BAILEY.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Commissioner of Streets.

ASA B. PRICHARD.
Office hour: 9.30 to 10 A. M.

Commissioner of Public Buildings and Inspector of Buildings.

WALTER T. LITTLEFIELD.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Commissioner of Electric Lines and Lights.

WALTER I. FULLER.
Office, Central Fire Station, 261 Medford street.

Water Commissioner.

FRANK E. MERRILL.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Clerk of Committees and Departments.

WILLIAM P. MITCHELL.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Chief of Police.

CHARLES A. KENDALL.
Office, Police Building, Bow street.

Chief Engineer of the Fire Department.

SEWALL M. RICH.
Office, Central Fire Station, 261 Medford street.

City Physician.

C. CLARK TOWLE, M. D.
24 Prospect Hill avenue.

Inspector of Plumbing.

DUNCAN C. GREENE.
Office hour: 8 to 9 A. M.

Inspector of Milk and Vinegar.

HERBERT E. BOWMAN.
Office hours: 9 A. M. to 12 M., except Saturdays.

Inspector of Animals and Provisions.

CHARLES M. BERRY,
60 Prescott street.

Inspector of Petroleum.

SEWALL M. RICH.
Office, Central Fire Station, 261 Medford street.

Sealer of Weights and Measures.

JOHN H. DUSSEAUT.
Deputy Sealer, BENJAMIN S. ABBOTT.
Office, City Hall Annex.
Office hours: 9 A. M. to 12 M.

Registration Clerk, City Laborers.

HOWARD E. WEMYSS (appointed April 22, 1913).

Fence Viewers.

CHARLES M. BERRY,
60 Prescott street.
ALBERT FISKE,
47 Prescott street.

Burial Agent.

UNDER REVISED LAWS, CHAPTER 79, SECTION 20.
JOHN H. DUSSEAUT,
42 Sargent avenue.

Constables.

WALTER C. BRIGGS.	JAMES M. HARMON.
GEORGE H. CARLETON.	FRED E. HANLEY.
EUGENE A. CARTER.	DENNIS KELLEY.
WINSLOW W. COFFIN.	JOHN J. KELLEY.
WILLIAM E. COPITHORNE.	CHARLES A. KENDALL.
THOMAS DAMERY.	CHARLES B. PALMER.
CHARLES L. ELLIS.	ROBERT R. PERRY.
CHARLES C. FOLSOM.	JOHN F. SCANNELL.
ARTHUR L. GILMAN.	MALCOLM E. STURTEVANT
FREDERICK A. HANSCOM.	CHARLES E. WOODMAN.

Measurer of Wood and Bark.

CHARLES A. HANDY.
NORMAN A. WHITTUM.
JOSEPH F. TYTER.

Measurer of Coal.

EVERETT C. EMERY.

Public Weigher in Charge of City Scales at City Ledge.

WILLIAM H. WHITCOMB.

Weighers of Coal.

DANIEL F. ASH.	JOSEPH E. MCGEE.
EDGAR H. BARKER.	JOHN J. MCMAHON.
JOHN L. BLAKE.	JOHN C. McNALLY.
JOHN R. BOYD.	GEORGE H. MARSH.
CORNELIUS J. COAKLEY.	JOHN A. MARSH.
EUGENE F. CUMMINGS.	OSMAN T. MARSH.
HARRY H. CUMMINGS.	GEORGE H. MOORE.
WILLIAM G. CUMMINGS.	LEWIS O'BRIEN.
ALBERTUS L. DAKIN.	JAMES P. O'NEILL.
CHARLES F. DOHERTY.	JOHN J. O'NEILL.
WILLIAM J. DWYER.	MARK W. PATTEN.
WILLIAM L. EGAN.	JOHN J. RYAN.
EVERETT C. EMERY.	WALTER K. SMITH.
FRED L. ESTEY.	JOHN W. STEELE.
CHARLES T. GARLAND.	FRANK A. TEELE.
WILLIAM E. GERRISH.	WILLIAM J. THOMPSON.
HELEN T. GOULD.	JAMES WALLACE.
GARFIELD J. GRILLS.	THOMAS WALSH.
CHARLES A. HARDY.	GEORGE P. WARD.
JOSEPH F. HAUSE.	NORMAN A. WHITTUM.
HARVEY E. HEALD.	JOHN H. WOODMAN.
JOHN F. KELLEY.	LUCIEN L. WOODMAN.
WILLIAM M. LENNAN.	

Weighers of Beef.

D. W. BAXTER.	THOMAS S. PARKER.
F. A. BENNETT.	JOHN J. QUINN
OLIVER BRYANT.	GEORGE RYAN.
CARL W. BURROWS.	CARL F. SAMPSON.
THOMAS J. CARNEY.	WILLIS B. SARGENT.
GEORGE DANIELS.	WALTER SAVAGE.
FRANK H. FALLIS.	EDWIN F. SEASLEY.
WILLIAM HAGERTY.	FRANK SHAW.
FRED HARRIS.	GEORGE C. SHAW.
PETER HAYES.	ROBERT E. SMITH.
PAUL B. HILL.	LEONARD STICKLEY.
FORREST D. LANG.	L. G. TRAFTON.
ARTHUR F. MASON.	JAMES F TYTER.
M. J. McCORMACK.	GEORGE C. WILLIAMS.
REUBEN W. MEAD.	TOBIAS YAVNER.
JOSEPH MURPHY.	GEORGE YOUNG.

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